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a	cag	gac	gct	gta	gct	tca	aaa	atc	tta	gga	ttg	cct	acg	cag	act	gtt	49
Gln	Asp	Ala	Val	Ala	Ser	Lys	Ile	Leu	Gly	Leu	Pro	Thr	Gln	Thr	Val		
1				5				10				15					
gat	tca	tca	cag	ggt	tct	gaa	tat	gac	tat	gtc	ata	ttc	aca	caa	act	97	
Asp	Ser	Ser	Gln	Gly	Ser	Glu	Tyr	Asp	Tyr	Val	Ile	Phe	Thr	Gln	Thr		
			20					25				30					
act	gaa	aca	gca	cac	tct	tgt	aat	gtc	aac	cgc	ttc	aat	gtg	gct	atc	145	
Thr	Glu	Thr	Ala	His	Ser	Cys	Asn	Val	Asn	Arg	Phe	Asn	Val	Ala	Ile		
			35				40					45					
aca	agg	gca	aaa	att	ggc	att	ttg	tgc	ata	atg	tct	gat	aga	gat	ctt	193	
Thr	Arg	Ala	Lys	Ile	Gly	Ile	Leu	Cys	Ile	Met	Ser	Asp	Arg	Asp	Leu		
			50			55					60						
tat	gac	aaa	ctg	caa	ttt	aca	agt	cta	gaa	ata	cca	cgt	cgc	aat	gtg	241	
Tyr	Asp	Lys	Leu	Gln	Phe	Thr	Ser	Leu	Glu	Ile	Pro	Arg	Arg	Asn	Val		
65					70					75				80			
gct	aca	tta	caa	gca	gaa	aat	gta	act	gga	ctt	ttt	aag	gac	tgt	agt	289	
Ala	Thr	Leu	Gln	Ala	Glu	Asn	Val	Thr	Gly	Leu	Phe	Lys	Asp	Cys	Ser		
				85				90				95					
aag	atc	att	act	ggt	ctt	cat	cct	aca	cag	gca	cct	aca	cac	ctc	agc	337	
Lys	Ile	Ile	Thr	Gly	Leu	His	Pro	Thr	Gln	Ala	Pro	Thr	His	Leu	Ser		
			100					105				110					
gtt	gat	ata	aaa	ttc	aag	act	gaa	gga	tta	tgt	gtt	gac	ata	cca	ggc	385	
Val	Asp	Ile	Lys	Phe	Lys	Thr	Glu	Gly	Leu	Cys	Val	Asp	Ile	Pro	Gly		
			115				120					125					
ata	cca	aag	gac	atg	acc	tac	cgt	aga	ctc	atc	tct	atg	atg	ggc	ttc	433	
Ile	Pro	Lys	Asp	Met	Thr	Tyr	Arg	Arg	Leu	Ile	Ser	Met	Met	Gly	Phe		
			130			135					140						
aaa	atg	aat	tac	caa	gtc	aat	ggt	tac	cct	aat	atg	ttt	atc	acc	cgc	481	
Lys	Met	Asn	Tyr	Gln	Val	Asn	Gly	Tyr	Pro	Asn	Met	Phe	Ile	Thr	Arg		
145					150					155				160			
gaa	gaa	gct	att	cgt	cac	gtt	cgt	gcg	tgg	att	ggc	ttt	gat	gta	gag	529	
Glu	Glu	Ala	Ile	Arg	His	Val	Arg	Ala	Trp	Ile	Gly	Phe	Asp	Val	Glu		
				165				170						175			
ggc	tgt	cat	gca	act	aga	gat	gct	gtg	ggc	act	aac	cta	cct	ctc	cag	577	
Gly	Cys	His	Ala	Thr	Arg	Asp	Ala	Val	Gly	Thr	Asn	Leu	Pro	Leu	Gln		
			180					185				190					
cta	gga	ttt	tct	aca	ggc	gtt	aac	tta	gta	gct	gta	ccg	act	ggc	tat	625	
Leu	Gly	Phe	Ser	Thr	Gly	Val	Asn	Leu	Val	Ala	Val	Pro	Thr	Gly	Tyr		
			195			200						205					
gtt	gac	act	gaa	aat	aac	cta										646	
Val	Asp	Thr	Glu	Asn	Asn	Leu											
			210			215											

FIG. 1

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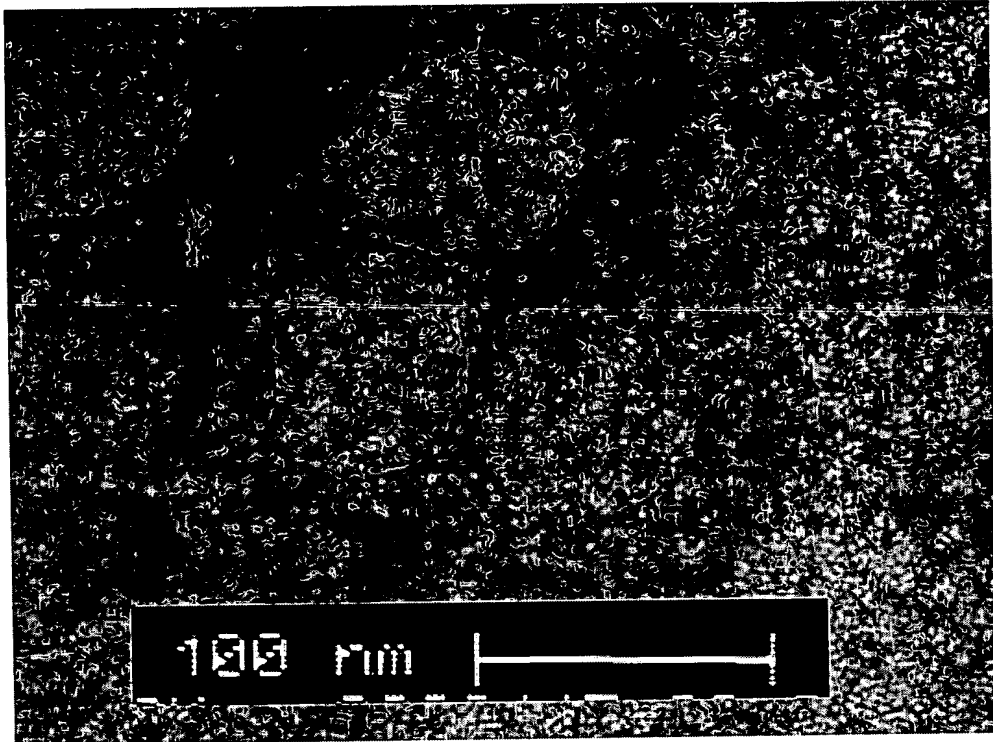


FIG. 2

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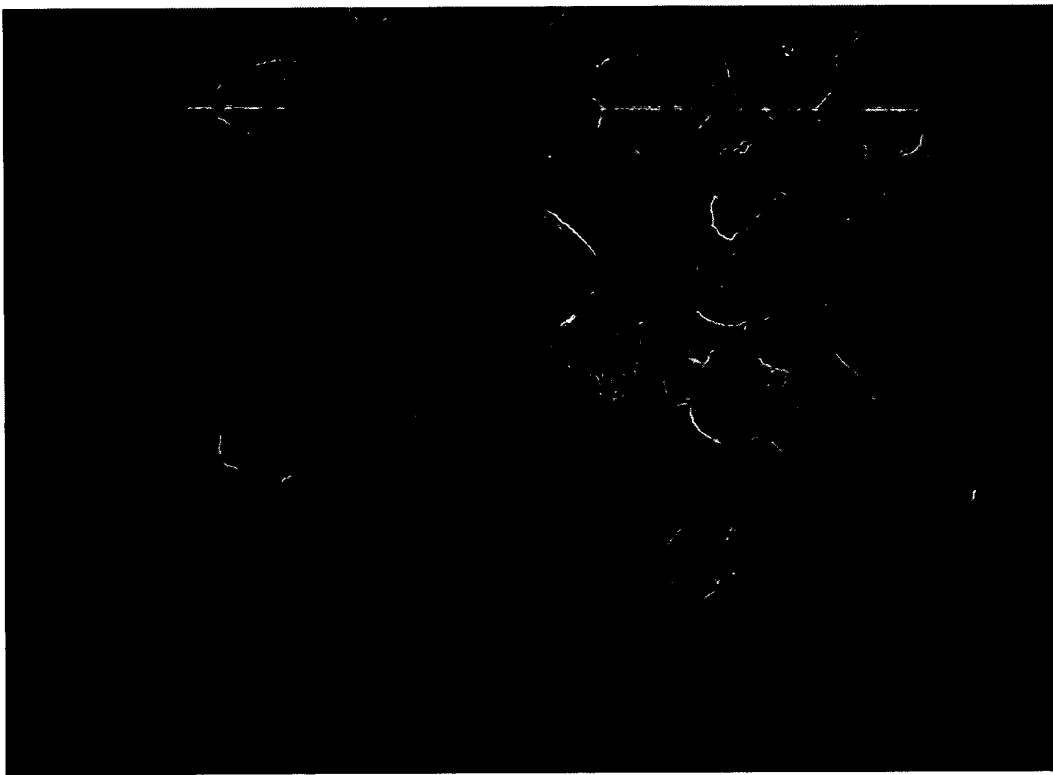


FIG. 3

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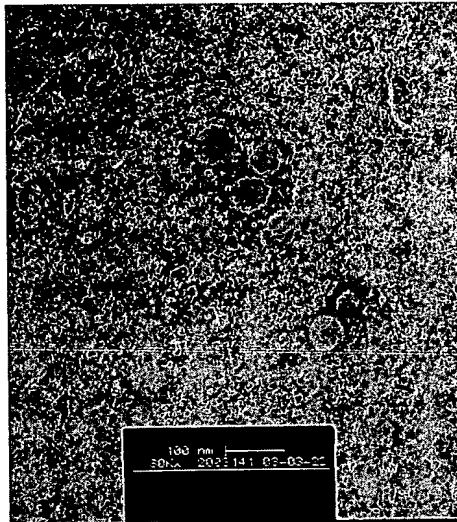


FIG. 4

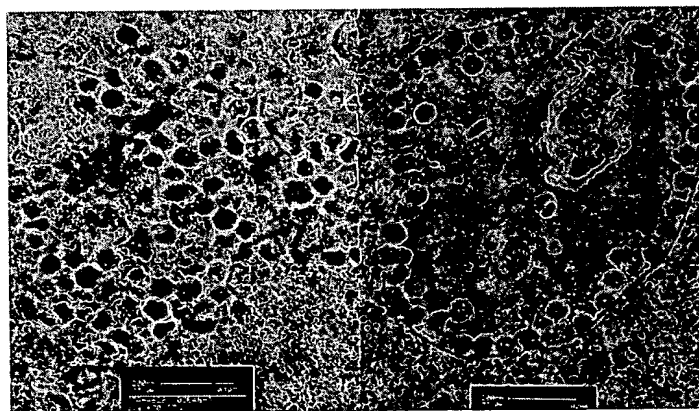


FIG. 5A

FIG. 5B

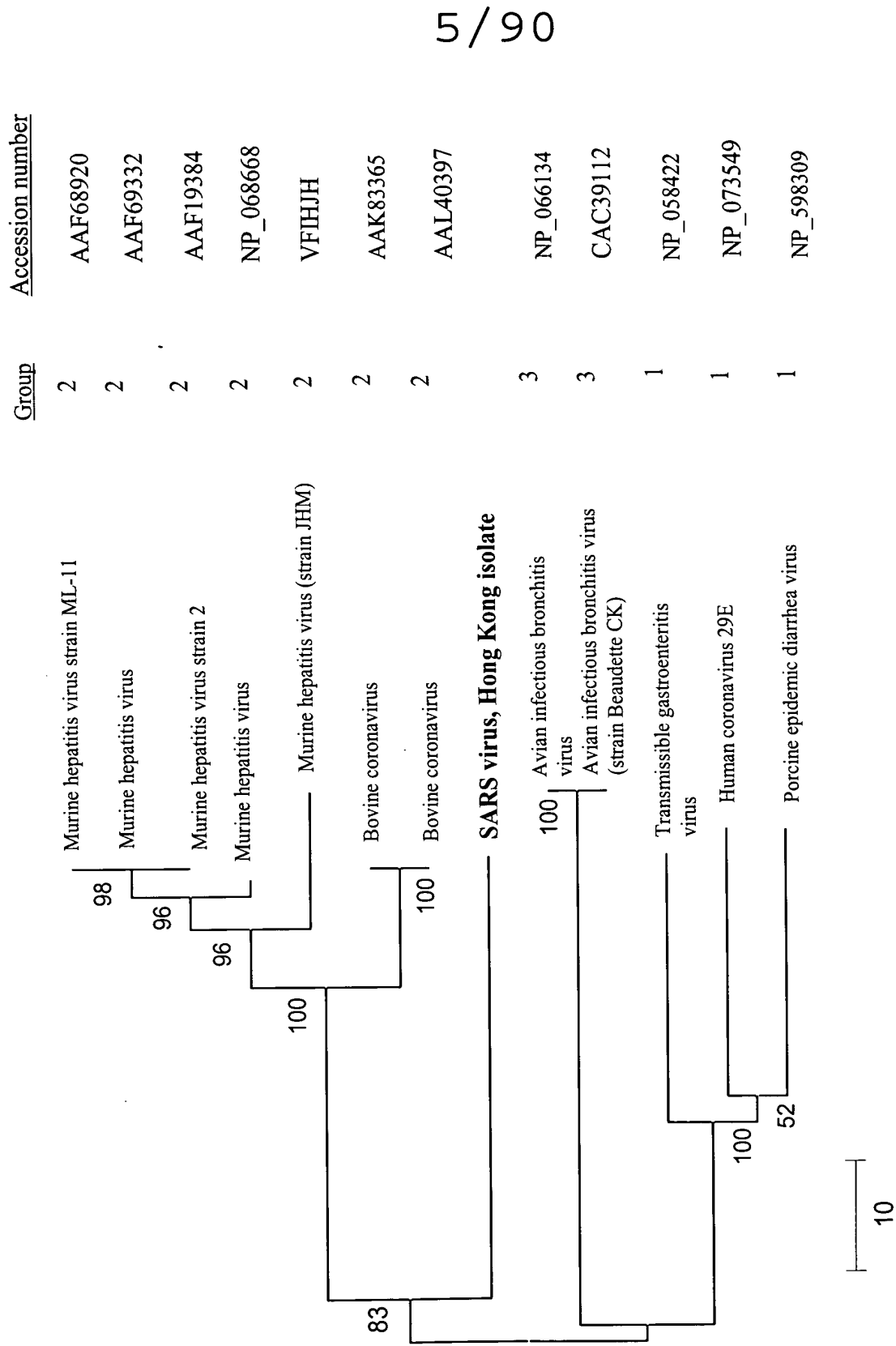


FIG. 6

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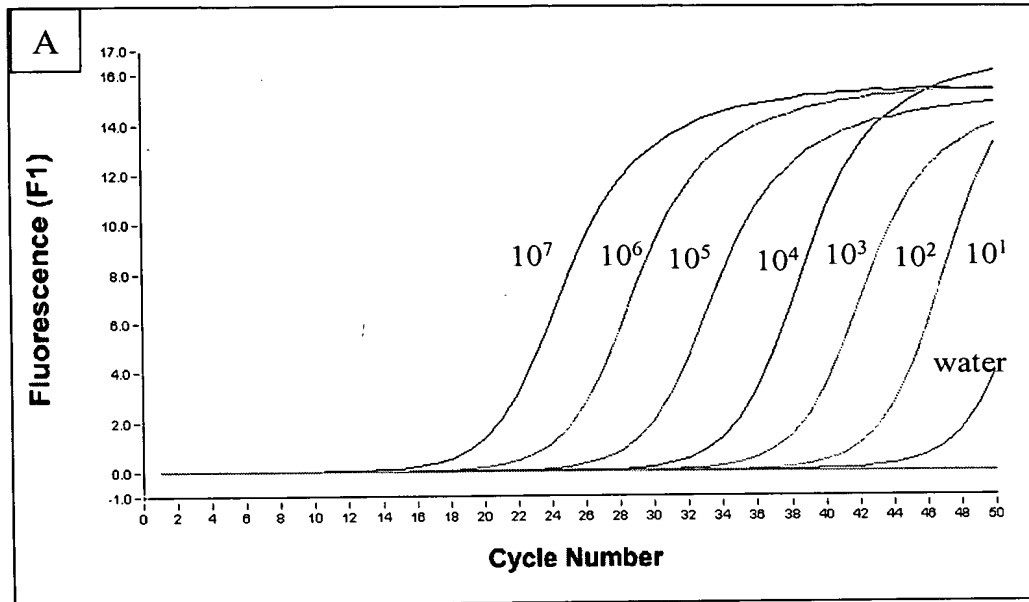


FIG. 7A

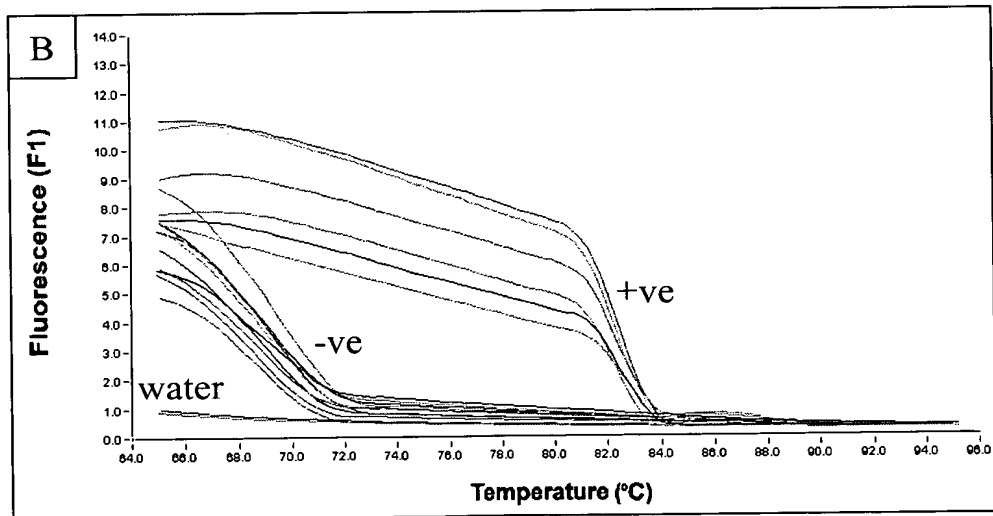


FIG. 7B

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t	aaa	tgt	agt	aga	atc	ata	cct	gcg	cgt	gcg	cgc	gta	gag	tgt	ttt	gat	49
	Lys	Cys	Ser	Arg	Ile	Ile	Pro	Ala	Arg	Ala	Arg	Val	Glu	Cys	Phe	Asp	
	1				5					10					15		
aaa	ttc	aaa	gtg	aat	tca	aca	cta	gaa	cag	tat	ggt	ttc	tgc	act	gta		97
Lys	Phe	Lys	Val	Asn	Ser	Thr	Leu	Glu	Gln	Tyr	Val	Phe	Cys	Thr	Val		
			20					25					30				
aat	gca	ttg	cca	gaa	aca	act	gct	gac	att	gta	gtc	ttt	gat	gaa	atc		145
Asn	Ala	Leu	Pro	Glu	Thr	Thr	Ala	Asp	Ile	Val	Val	Phe	Asp	Glu	Ile		
		35					40					45					
tct	atg	gct	act	aat	tat	gac	ttg	agt	ggt	gtc	aat	gct	aga	ctt	cgt		193
Ser	Met	Ala	Thr	Asn	Tyr	Asp	Leu	Ser	Val	Val	Asn	Ala	Arg	Leu	Arg		
	50					55					60						
gca	aaa	cac	tac	gtc	tat	att	ggc	gat	cct	gct	caa	tta	cca	gcc	ccc		241
Ala	Lys	His	Tyr	Val	Tyr	Ile	Gly	Asp	Pro	Ala	Gln	Leu	Pro	Ala	Pro		
65					70					75					80		
cgc	aca	ttg	ctg	act	aaa	ggc	aca	cta	gaa	cca	gaa	tat	ttt	aat	tca		289
Arg	Thr	Leu	Leu	Thr	Lys	Gly	Thr	Leu	Glu	Pro	Glu	Tyr	Phe	Asn	Ser		
				85					90					95			
gtg	tgc	aga	ctt	atg	aaa	aca	ata	ggc	cca	gac	atg	ttc	ctt	gga	act		337
Val	Cys	Arg	Leu	Met	Lys	Thr	Ile	Gly	Pro	Asp	Met	Phe	Leu	Gly	Thr		
			100					105					110				
tgt	cgc	cgt	tgt	cct	gct	gaa	att	ggt	gac	act	gtg	agt	gct	tta	ggt		385
Cys	Arg	Arg	Cys	Pro	Ala	Glu	Ile	Val	Asp	Thr	Val	Ser	Ala	Leu	Val		
		115				120						125					
tat	gac	aat	aag	cta	aaa	gca	cac	aag	gag	aag	tca	gct	caa	tgc	ttc		433
Tyr	Asp	Asn	Lys	Leu	Lys	Ala	His	Lys	Glu	Lys	Ser	Ala	Gln	Cys	Phe		
	130					135					140						
aaa	atg	ttc	tac	aaa	ggc	ggt	att	aca	cat	gat	ggt	tca	tct	gca	atc		481
Lys	Met	Phe	Tyr	Lys	Gly	Val	Ile	Thr	His	Asp	Val	Ser	Ser	Ala	Ile		
145					150					155					160		
aac	aga	cct	caa	ata	ggc	ggt	gta	aga	gaa	ttt	ctt	aca	cgc	aat	cct		529
Asn	Arg	Pro	Gln	Ile	Gly	Val	Val	Arg	Glu	Phe	Leu	Thr	Arg	Asn	Pro		
			165						170					175			
gct	tg	aga	aaa	gct	ggt	ttt	atc	tca	cct	tat	aat	tca	cag	aac	gct		577
Ala	Trp	Arg	Lys	Ala	Val	Phe	Ile	Ser	Pro	Tyr	Asn	Ser	Gln	Asn	Ala		
			180					185					190				
gta	gct	tca	aaa	atc	tta	gga	ttg	cct	acg	cag	act	ggt	gat	tca	tca		625
Val	Ala	Ser	Lys	Ile	Leu	Gly	Leu	Pro	Thr	Gln	Thr	Val	Asp	Ser	Ser		
		195				200						205					
cag	ggc	tct	gaa	tat	gac	tat	gtc	ata	ttc	aca	caa	act	act	gaa	aca		673
Gln	Gly	Ser	Glu	Tyr	Asp	Tyr	Val	Ile	Phe	Thr	Gln	Thr	Thr	Glu	Thr		
	210					215					220						

FIG. 8

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gca cac tct tgt aat gtc aac cgc ttc aat gtg gct atc aca agg gca	721
Ala His Ser Cys Asn Val Asn Arg Phe Asn Val Ala Ile Thr Arg Ala	
225 230 235 240	
aaa att ggc att ttg tgc ata atg tct gat aga gat ctt tat gac aaa	769
Lys Ile Gly Ile Leu Cys Ile Met Ser Asp Arg Asp Leu Tyr Asp Lys	
245 250 255	
ctg caa ttt aca agt cta gaa ata cca cgt cgc aat gtg gct aca tta	817
Leu Gln Phe Thr Ser Leu Glu Ile Pro Arg Arg Asn Val Ala Thr Leu	
260 265 270	
caa gca gaa aat gta act gga ctt ttt aag gac tgt agt aag atc att	865
Gln Ala Glu Asn Val Thr Gly Leu Phe Lys Asp Cys Ser Lys Ile Ile	
275 280 285	
act ggt ctt cat cct aca cag gca cct aca cac ctc agc gtt gat ata	913
Thr Gly Leu His Pro Thr Gln Ala Pro Thr His Leu Ser Val Asp Ile	
290 295 300	
aaa ttc aag act gaa gga tta tgt gtt gac ata cca ggc ata cca aag	961
Lys Phe Lys Thr Glu Gly Leu Cys Val Asp Ile Pro Gly Ile Pro Lys	
305 310 315 320	
gac atg acc tac cgt aga ctc atc tct atg atg ggt ttc aaa atg aat	1009
Asp Met Thr Tyr Arg Arg Leu Ile Ser Met Met Gly Phe Lys Met Asn	
325 330 335	
tac caa gtc aat ggt tac cct aat atg ttt atc acc cgc gaa gaa gct	1057
Tyr Gln Val Asn Gly Tyr Pro Asn Met Phe Ile Thr Arg Glu Glu Ala	
340 345 350	
att cgt cac gtt cgt gcg tgg att ggc ttt gat gta gag ggc tgt cat	1105
Ile Arg His Val Arg Ala Trp Ile Gly Phe Asp Val Glu Gly Cys His	
355 360 365	
gca act aga gat gct gtg ggt act aac cta cct ctc cag cta gga ttt	1153
Ala Thr Arg Asp Ala Val Gly Thr Asn Leu Pro Leu Gln Leu Gly Phe	
370 375 380	
tct aca ggt gtt aac tta gta gct gta ccg act ggt tat gtt gac act	1201
Ser Thr Gly Val Asn Leu Val Ala Val Pro Thr Gly Tyr Val Asp Thr	
385 390 395 400	
gaa aat aac cta	1213
Glu Asn Asn Leu	

FIG. 8 Con't

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c	aga	acc	atg	cct	aac	atg	ctt	agg	ata	atg	gcc	tct	ctt	gtt	ctt	gct	49
	Arg	Thr	Met	Pro	Asn	Met	Leu	Arg	Ile	Met	Ala	Ser	Leu	Val	Leu	Ala	
	1				5				10						15		
cgc	aaa	cat	aac	act	tgc	tgt	aac	tta	tca	cac	cgt	ttc	tac	agg	tta		97
	Arg	Lys	His	Asn	Thr	Cys	Cys	Asn	Leu	Ser	His	Arg	Phe	Tyr	Arg	Leu	
			20					25					30				
gct	aac	gag	tgt	gcg	caa	gta	tta	agt	gag	atg	gtc	atg	tgt	ggc	ggc		145
	Ala	Asn	Glu	Cys	Ala	Gln	Val	Leu	Ser	Glu	Met	Val	Met	Cys	Gly	Gly	
		35					40					45					
tca	cta	tat	gtt	aaa	cca	ggg	gga	aca	tca	tcc	ggg	gat	gct	aca	act		193
	Ser	Leu	Tyr	Val	Lys	Pro	Gly	Gly	Thr	Ser	Ser	Gly	Asp	Ala	Thr	Thr	
		50					55					60					
gct	tat	gct	aat	agt	gtc	ttt	aac	att	tgt	caa	gct	gtt	aca	gcc	aat		241
	Ala	Tyr	Ala	Asn	Ser	Val	Phe	Asn	Ile	Cys	Gln	Ala	Val	Thr	Ala	Asn	
	65					70				75					80		
gta	aat	gca	ctt	ctt	tca	act	gat	ggg	aat	aag	ata	gct	gac	aag	tat		289
	Val	Asn	Ala	Leu	Leu	Ser	Thr	Asp	Gly	Asn	Lys	Ile	Ala	Asp	Lys	Tyr	
				85					90						95		
gtc	cgc	aat	cta	caa	cac	agg	ctc	tat	gag	tgt	ctc	tat	aga	aat	agg		337
	Val	Arg	Asn	Leu	Gln	His	Arg	Leu	Tyr	Glu	Cys	Leu	Tyr	Arg	Asn	Arg	
			100					105						110			
gat	gtt	gat	cat	gaa	ttc	gtg	gat	gag	ttt	tac	gct	tac	ctg	cgt	aaa		385
	Asp	Val	Asp	His	Glu	Phe	Val	Asp	Glu	Phe	Tyr	Ala	Tyr	Leu	Arg	Lys	
		115					120					125					
cat	ttc	tcc	atg	atg	att	ctt	tct	gat	gat	gcc	gtt	gtg	tgc	tat	aac		433
	His	Phe	Ser	Met	Met	Ile	Leu	Ser	Asp	Asp	Ala	Val	Val	Cys	Tyr	Asn	
		130					135					140					
agt	aac	tat	gcg	gct	caa	ggg	tta	gta	gct	agc	att	aag	aac	ttt	aag		481
	Ser	Asn	Tyr	Ala	Ala	Gln	Gly	Leu	Val	Ala	Ser	Ile	Lys	Asn	Phe	Lys	
	145					150				155					160		
gca	gtt	ctt	tat	tat	caa	aat	aat	gtg	ttc	atg	tct	gag	gca	aaa	tgt		529
	Ala	Val	Leu	Tyr	Tyr	Gln	Asn	Asn	Val	Phe	Met	Ser	Glu	Ala	Lys	Cys	
				165					170				S		175		
tgg	act	gag	act	gac	ctt	act	aaa	gga	cct	cac	gaa	ttt	tgc	tca	cag		577
	Trp	Thr	Glu	Thr	Asp	Leu	Thr	Lys	Gly	Pro	His	Glu	Phe	Cys	Ser	Gln	
			180					185						190			
cat	aca	atg	cta	gtt	aaa	caa	gga	gat	gat	tac	gtg	tac	ctg	cct	tac		625
	His	Thr	Met	Leu	Val	Lys	Gln	Gly	Asp	Asp	Tyr	Val	Tyr	Leu	Pro	Tyr	
		195					200						205				
cca	gat	cca	tca	aga	ata	tta	ggc	gca	ggc	tgt	ttt	gtc	gat	gat	att		673
	Pro	Asp	Pro	Ser	Arg	Ile	Leu	Gly	Ala	Gly	Cys	Phe	Val	Asp	Asp	Ile	
		210					215					220					
gtc	aaa	cag	atg	gta	cac	tta	tga	ttg	aaa	ggg	tcc	gtg	tca	ctg	gct		721
	Val	Lys	Gln	Met	Val	His	Leu										
	225					230											
att	gat	gc															729

FIG. 9

```

1  atattaggtt tttacctacc caggaaaagc caaccaacct cgatctcttg tagatctgtt
61  ctctaaacga actttaaaat ctgtgtagct gtcgctcggc tgcattgccta gtgcacctac
121 gcaagtataaa caataataaaa ttttactgtc gttgacaaga aacgagtaac tgcgccctct
181 tctgcagact gcttacgggt tcgtccgtgt tgcagtcgat catcagcata cctaggtttc
241 gtccgggtgt gaccgaaagg taagatggag agccttggtc ttggtgtcaa cgagaaaaca
301 caagtcacaac tcagtttgcc tgtccttcag gttagagacg tgctagtgcg tggcttcggg
361 gactctgtgg aagaggccct atcggaggca cgtgaacacc tcaaaaatgg cacttggtgg
421 ctagtagagc tggaaaaagg cgtactgccc cagcttgaac agccctatgt gttcattaaa
481 cgttctgatg ccttaagcac caatcacggc cacaaggtcg ttgagctggt tgcagaaatg
541 gacggcattc agtacggtcg tagcgggtata acactgggag tactcgtgcc acatgtgggc
601 gaaaccccaa ttgcataccg caatgttctt cttcgtaaga acggtataaa gggagccggg
661 ggtcatagct atggcatcga tctaaagtct tatgacttag gtgacgagct tggcactgat
721 cccattgaag attatgaaca aaactggaac actaagcatg gcagtggtgc actccgtgaa
781 ctactcgtg agctcaatgg aggtgcagtc actcgtatg tcgacaacaa tttctgtggc
841 ccagatgggt accctcttga ttgcatcaaa gattttctcg cacgcgcggg caagtcaatg
901 tgcactcttt ccgaacaact tgattacatc gagtcgaaga gaggtgtcta ctgctgccgt
961 gaccatgagc atgaaattgc ctggttcact gagcgtctcg ataagagcta cgagcaccag
1021 acacccttcg aaattaagag tgccaagaaa tttgacactt tcaaagggga atgccaaaag
1081 tttgtgtttc ctcttaactc aaaagtcaaa gtcattcaac cacgtgttga aaagaaaaag
1141 actgagggtt tcatggggcg tatacgtctt gtgtaccctg ttgcatctcc acaggagtgt
1201 aacaatatgc acttgctctac cttgatgaaa tgtaatcatt gcgatgaagt ttcatggcag
1261 acgtgcgact ttctgaaagc cacttggtga cattgtggca ctgaaaattt agttattgaa
1321 ggacctacta catgtgggta cctacctact aatgctgtag tgaaaatgcc atgtcctgcc
1381 tgtcaagacc cagagattgg acctgagcat agtgttgtag attatcacia ccaactcaaac
1441 attgaaactc gactccgcaa gggaggtagg actagatgtt ttggaggctg tgtgtttgcc
1501 tatgttggct gctataataa gcgtgcctac tgggttcctc gtgctagtgc tgatattggc
1561 tcaggccata ctggcattac tggtgacaat gtggagacct tgaatgagga tctccttgag
1621 aactgagtc gtgaacgtgt taacattaac attgttggcg attttcattt gaatgaagag
1681 gttgccatca ttttggcatc tttctctgct tctacaagtg cctttattga cactataaag
1741 agtcttgatt acaagtcttt caaaaccatt gttgagtcct gcggttaact taaagttacc
1801 aagggaaggc ccgtaaaagg tgcttggaaac attggacaac agagatcagt ttaacacca
1861 ctgtgtgggt ttccctcaca ggctgctggg gttatcagat caatttttgc gcgcacactt
1921 gatgcagcaa accactcaat tcctgatttg caaagagcag ctgtcaccat acttgatggg
1981 atttctgaac agtcattacg tcttgctgac gccatgggtt atacttcaga cctgctcacc
2041 aacagtgtca ttattatggc atatgtaact ggtggtcttg tacaacagac ttctcagtgg
2101 ttgtctaate ttttgggcac tactgttgaa aaactcaggc ctatctttga atggattgag
2161 gcgaaactta gtgcaggagt tgaatttctc aaggatgctt gggagattct caaatttctc
2221 attacagggt tttttgacat cgtcaagggt caaatacagg ttgcttcaga taacatcaag
2281 gattgtgtaa aatgcttcat tgatgttggt aacaaggcac tcgaaatgtg catgtatcaa
2341 gtcactatcg ctggcgcaaa gttgcgatca ctcaacttag gtgaagtctt catcgctcaa
2401 agcaagggac tttaccgtca tgtgtatacgt ggcaaggagc agctgcaact actcatgcct
2461 cttaggcac caaaagaagt aaaccttctt gaaggtgatt cacatgacac agtacttacc
2521 tctgaggagg ttgttctcaa gaacggtgaa ctcgaagcac tcgagacgcc cgttgatagc
2581 ttcacaaatg gagctatcgt cggcacacca gtctgtgtaa atggcctcat gctcttagag
2641 attaggaca aagaacaata ctgcgcatgt tctcctgggt tactggctac aaacaatgtc
2701 tttcgcttaa aaggggggtg accaattaaa ggtgtaacct ttggagaaga tactgtttgg
2761 gaagttcaag gttacaagaa tgtgagaatc acatttgagc ttgatgaacg tgttgacaaa
2821 gtgcttaatg aaaagtgtct tgtctacact gttgaatccg gtaccgaagt tactgatttt
2881 gcatgtgttg tagcagaggc tgtgtgtaag actttacaac cagtttctga tctccttacc
2941 aacatgggta ttgatcttga tgagtggagt gtagctacat tctacttatt tgatgatgct
3001 ggtgaagaaa acttttctat acgtatgtat tgttcttttt accctccaga tgaggaagaa
3061 gaggacgatg cagagtgtga ggaagaagaa attgatgaaa cctgtgaaca tgagtacggg
3121 acagaggatg attatcaagg tctccctctg gaatttggtg cctcagctga aacagttcga
3181 gttgaggaag aagaagagga agactggctg gatgatacta ctgagcaatc agagattgag
3241 ccagaaccag aacctacacc tgaagaacca gttaatcagt ttactggtta tttaaaactt
3301 actgacaatg ttgccattaa atgtgttgac atcgtaaagg aggcacaaag tgctaatact

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FIG. 10

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3361 atggtgattg taaatgctgc taacatacac ctgaaacatg gtggtggtgt agcaggtgca
3421 ctcaacaagg caaccaatgg tgccatgcaa aaggagagtg atgattacat taagctaaat
3481 ggccctctta cagtaggagg gtcttggttg ctttctggac ataatcttgc taagaagtgt
3541 ctgcatgttg ttggacctaa cctaaatgca ggtgaggaca tccagcttct taaggcagca
3601 tatgaaaatt tcaattcaca ggacatctta cttgcacat tggtgtcagc aggcataattt
3661 ggtgctaaac cacttcagtc tttacaagtg tgcgtgcaga cggttcgtac acaggtttat
3721 attgcagtca atgacaaagc tctttatgag caggttggtca tggattatct tgataacctg
3781 aagcctagag tggaagcacc taaacaagag gagccaccaa acacagaaga ttccaaaact
3841 gaggagaaat ctgtcgtaca gaagcctgtc gatgtgaagc caaaaattaa ggccctgcatt
3901 gatgagggtta ccacaacact ggaagaaact aagtttctta ccaataagtt actcttggtt
3961 gctgatataca atggttaagct ttaccatgat tctcagaaca tgcttagagg tgaagatatg
4021 tctttccttg agaaggatgc acctacatag gtaggtgatg ttatcactag tggatatac
4081 acttgtgttg taataccctc caaaaaggct ggtggcacta ctgagatgct ctcaagagct
4141 ttgaagaaag tgccagttga tgagtataata accacgtacc ctggacaagg atgtgctggg
4201 tatacacttg aggaagctaa gactgctctt aagaaatgca aatctgcatt ttatgtacta
4261 ccttcagaag cacctaagtc taaggaagag attctaggaa ctgtatcctg gaatttgaga
4321 gaaatgcttg ctcatgctga agagacaaga aaattaatgc ctatatgcat ggatgttaga
4381 gccataatgg caaccatcca acgtaagtat aaaggaatta aaattcaaga gggcatcggt
4441 gactatgggtg tccgattctt cttttatact agtaaagagc ctgtagcttc tattattacg
4501 aagctgaact ctctaaatga gccgcttgct acaatgcaa ttggttatgt gacacatggt
4561 tttaatcttg aagaggctgc gcgctgtatg cgttctctta aagctcctgc cgtagtgtca
4621 gtatcatcac cagatgctgt tactacatat aatggatacc tcacttcgtc atcaaagaca
4681 tctgaaagagc actttgtaga aacagtttct ttggctggct cttacagaga ttggtcctat
4741 tcaggacagc gtacagagtt aggtgttgaa tttcttaagc gtggtgacaa aatttgtgtac
4801 cacactctgg agagccccgt cgagtttcat cttgacgggt aggttctttc acttgacaaa
4861 ctaaagagtc tcttatccct gcgggagggt aagactataa aagtgttcac aactgtggac
4921 aacactaatc tccacacaca gcttggtgat atgtctatga catatggaca gcagtttggt
4981 ccaacatact tggatgggtg tgatgttaca aaaattaaac ctcatgtaaa tcatgagggt
5041 aagactttct ttgtactacc tagtgatgac acactacgta gtgaagcttt cgagtactac
5101 catactcttg atgagagttt tcttggtagg tacatgtctg ctttaaacca cacaagaaa
5161 tggaaatttc ctcaagttgg tggtttaact tcaattaaat gggctgataa caattgttat
5221 ttgtctagtg ttttattagc acttcaacag cttgaagtca aattcaatgc accagcactt
5281 caagaggctt attatagagc cgtgctgggt gatgctgcta acttttgtgc actcactctc
5341 gcttacagta ataaaactgt tggcgagctt ggtgatgtca gagaaactat gacccatctt
5401 ctacagcatg ctaatttgga atctgcaaag cgagttctta atgtggtgtg taaacattgt
5461 ggtcagaaaa ctactacctt aacgggtgta gaagctgtga tgtatatggg tactctatct
5521 tatgataatc ttaagacagg tgtttccatt ccatgtgtgt gtggtcgtga tgctacacaa
5581 tatctagtac aacaagagtc ttcttttgtt atgatgtctg caccacctgc tgagtataaa
5641 ttacagcaag gtacattctt atgtgcgaat gactacactg gtaactatca gttggtcat
5701 tacactcata taactgctaa ggagaccctc tatcgtattg acggagctca ccttacaag
5761 atgtcagagt acaaaggacc agtgactgat gttttctaca aggaaacatc ttactacta
5821 accatcaagc ctgtgtcgta taaactcgat ggagttactt acacagagat tgaacaaaa
5881 ttggatgggt attataaaaa ggataatgct tactatacag agcagcctat agaccttgta
5941 ccaactcaac cattaccaaa tgcgagtttt gataatttca aactcacatg ttctaacaca
6001 aaatttgctg atgattttaa tcaaagtaca ggcttcacaa agccagcttc acgagagcta
6061 tctgtcacat tcttcccaga cttgaatggc gatgtagtgg ctattgacta tagacactat
6121 tcagcgagtt tcaagaaagg tgctaaatta ctgcataagc caattgtttg gcacattaac
6181 caggctacaa ccaagacaac gttcaaacca aacacttggt gtttacgttg ttttggagt
6241 acaaagccag tagatacttc aaattcattt gaagttctgg cagtagaaga cacacaagga
6301 atggacaatc ttgcttgtga aagtcaacaa cccacctctg aagaagtagt ggaaaatcct
6361 accatacaga aggaagtcac agagtgtgac gtgaaaacta ccgaagtgtt aggcaatgtc
6421 atacttaaac catcagatga aggtgttaaa gtaacacaag agttagggtca tgaggatctt
6481 atggctgctt atgtggaaaa cacaagcatt accattaaga aacctaatag gctttcacta
6541 gccttagggt taaaaacaat tgccactcat ggtattgctg caattaatag tgttccttgg
6601 agtaaaatth ttgcttatgt caaaccattc ttaggacaag cagcaattac aacatcaaat
6661 tgcgctaaga gattagcaca acgtgtgttt aacaattata tgccttatgt gtttacatta

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FIG. 10 Con't

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6721	ttgttccaat	tgtgtacttt	tactaaaagt	accaattcta	gaattagagc	ttcactacct
6781	acaactattg	ctaaaaatag	tgtaaagagt	gttgctaaat	tatgtttgga	tgccggcatt
6841	aattatgtga	agtcacccaa	attttctaaa	ttgttcacaa	tcgctatgtg	gctattgttg
6901	ttaagtattt	gcttaggttc	tctaactctgt	gtaactgctg	cttttggtgt	actcttatct
6961	aattttggtg	ctccttctta	ttgtaatggc	gttagagaat	tgtatcttaa	ttcgtctaac
7021	gttactacta	tggatttctg	tgaaggttct	tttccttgca	gcatttggtt	aagtggatta
7081	gactcccttg	attcttatcc	agctcttgaa	accattcagg	tgacgatttc	atcgtaacaag
7141	ctagacttga	caatttttagg	tctggccgct	gagtgggttt	tggcatatat	gttggttcaca
7201	aaattctttt	atttattagg	tctttcagct	ataatgcagg	tgttcttttg	ctattttgct
7261	agtcatttca	tcagcaattc	ttggctcatg	tggtttatca	ttagtattgt	acaaatggca
7321	cccgtttctg	caatgggttag	gatgtacatc	ttctttgctt	ctttctacta	catatggaag
7381	agctatgttc	atatcatgga	tggttgccac	tcttcgactt	gcatgatgtg	ctataagcgc
7441	aatcgtgcca	cacgcgttga	gtgtacaact	attgttaatg	gcatgaagag	atctttctat
7501	gtctatgcaa	atggaggccg	tggcttctgc	aagactcaca	attggaattg	tctcaattgt
7561	gacacatttt	gcactggtag	tacattcatt	agtgatgaag	ttgctcgtga	tttgtcactc
7621	cagtttaaaa	gaccaatcaa	ccctactgac	cagtcacgtg	atattgttga	tagtggtgct
7681	gtgaaaaatg	gcgcgcttca	cctctacttt	gacaaggctg	gtcaaaagac	ctatgagaga
7741	catccgctct	cccattttgt	caatttagac	aatttgagag	ctaacaacac	taaaggttca
7801	ctgcctatta	atgtcatagt	ttttgatggc	aagtccaaat	gcgacgagtc	tgcttctaag
7861	tctgcttctg	tgtactacag	tcagctgatg	tgccaacctt	ttctgttgct	tgaccaagct
7921	cttgatcaaa	acgttgagga	tagtactgaa	gtttccgtta	agatgtttga	tgcttatgtc
7981	gacacctttt	cagcaacttt	tagtgttcct	atggaaaaac	ttaaggcact	tggtgctaca
8041	gctcacagcg	agttagcaaa	gggtgtagct	ttagatgggtg	tcctttctac	attcgtgtca
8101	gctgcccgcg	aagggtgttg	tgataccgat	gttgacacaa	aggatgttat	tgaatgtctc
8161	aaactttcac	atcactctga	cttagaagtg	acaggtgaca	gttgtaacaa	tttcatgctc
8221	acctataata	aggttgaaaa	catgacgcc	agagatcttg	gcgcatgtat	tgactgtaat
8281	gcaaggcata	tcaatgcccc	agtagcaaaa	agtcacaatg	tttcaatcat	ctggaatgta
8341	aaagactaca	tgtctttatc	tgaacagctg	cgtaaacaaa	ttcgtactgc	tgccaagaag
8401	aacaacatac	cttttacact	aacttgtgct	acaactagac	aggttgtcaa	tgtcataact
8461	actaaaatct	cactcaaggg	tggttaagatt	gttagtactt	gttttaaaat	tatgcttaag
8521	gccacattat	tgtgcgttct	tgctgcattg	gtttgttata	tcgttatgcc	agtacataca
8581	ttgtcaatcc	atgatggtta	cacaaatgaa	atcattgggtt	acaaagccat	tcaggatggg
8641	gtcactcgtg	acatcatttc	tactgatgat	tgttttgcaa	ataaacatgc	tggttttgac
8701	gcatgggtta	gccagcgtgg	tggttcatac	aaaaatgaca	aaagctgccc	tgtagtagct
8761	gctatcatta	caagagagat	tggtttcata	gtgcctggct	taccgggtac	tgtgctgaga
8821	gcaatcaatg	gtgacttctt	gcattttcta	cctcgtgttt	ttagtgctgt	tggcaacatt
8881	tgctacacac	cttccaaact	cattgagtat	agtgattttg	ctacctctgc	ttgcgttctt
8941	gctgctgagt	gtacaatttt	taaggatgct	atgggcaaac	ctgtgccata	ttgttatgac
9001	actaatttgc	tagaggggtc	tatttcttat	agtgagcttc	gtccagacac	tcgttatgtg
9061	cttatggatg	gttccatcat	acagtttctt	aacacttacc	tggaggggtc	gttagagta
9121	gtaacaactt	ttgatgctga	gtactgtaga	catggtacat	gcgaaaggct	agaagtaggt
9181	atttgcctat	ctaccagtgg	tagatgggtt	cttaataatg	agcattacag	agctctatca
9241	ggagttttct	gtgggtgttg	tgcgatgaat	ctcatagcta	acatctttac	tcctcttggt
9301	caacctgtgg	gtgcttttag	tgtgtctgct	tcagtagtgg	ctgggtggtat	tattgccata
9361	ttggtgactt	gtgctgccta	ctactttatg	aaattcagac	gtgtttttgg	tgagtacaac
9421	catgttggtg	ctgctaattgc	acttttggtt	ttgatgtctt	tcactatact	ctgtctggta
9481	ccagcttaca	gctttctgcc	gggagtctac	tcagtctttt	acttgtactt	gacattctat
9541	ttcaccaatg	atgtttcatt	cttggtctac	cttcaatggg	ttgccatggt	ttctcttatt
9601	gtgccttttt	ggataacagc	aatctatgta	ttctgtattt	ctctgaagca	ctccatttgg
9661	ttctttaaca	actatcttag	gaaaagagtc	atgtttaatg	gagttacatt	tagtaccttc
9721	gaggaggctg	ctttgtgtac	ctttttgctc	aacaaggaaa	tgtacctaaa	attgcgtagc
9781	gagacactgt	tgccacttac	acagtataac	aggtatcttg	ctctatataa	caagtacaag
9841	tatttcagtg	gagccttaga	tactaccagc	tatcgtgaag	cagcttgctg	ccacttagca
9901	aaggctctaa	atgacttttag	caactcaggt	gctgatgttc	tctaccaacc	accacagaca
9961	tcaatcactt	ctgctgttct	gcagagtggg	tttaggaaaa	tggcattccc	gtcaggcaaa
10021	gttgaagggg	gcatggtaca	agtaacctgt	ggaactacaa	ctcttaatgg	attgtgggtg

FIG. 10 Con't

10081	gatgacacag	tatactgtcc	aagacatgtc	atttgcacag	cagaagacat	gcttaatcct
10141	aactatgaag	atctgctcat	tcgcaaattcc	aaccatagct	ttcttggtca	ggctggcaat
10201	gttcaacttc	gtgttattgg	ccattctatg	caaaattgtc	tgcttaggct	taaagttgat
10261	acttctaacc	ctaagacacc	caagtataaa	tttgtccgta	tccaacctgg	tcaaacattt
10321	tcagttctag	catgctacaa	tggttcacca	tctggtgttt	atcagtgtgc	catgagacct
10381	aatcatacca	ttaaagggtc	tttccttaat	ggatcatgtg	gtagtgttgg	ttttaacatt
10441	gattatgatt	gcgtgtcttt	ctgctatatg	catcatatgg	agcttccaac	aggagtacac
10501	gctgggtactg	acttagaagg	taaattctat	ggtccatttg	ttgacagaca	aactgcacag
10561	gctgcaggta	cagacacaac	cataacatta	aatgttttgg	catggctgta	tgctgctggt
10621	atcaatgggtg	ataggtgggt	tcttaataga	ttcaccacta	ctttgaatga	ctttaacctt
10681	gtggcaatga	agtacaacta	tgaacctttg	acacaagatc	atgttgacat	atggggacct
10741	ctttctgctc	aaacaggaat	tgccgtctta	gatatgtgtg	ctgctttgaa	agagctgctg
10801	cagaatggta	tgaatggtcg	tactatcctt	ggtagcacta	ttttagaaga	tgagtttaca
10861	ccattttgatg	ttgttagaca	atgctctggg	gttaccttcc	aaggtaagtt	caagaaaatt
10921	gttaaggggca	ctcatcattg	gatgctttta	actttcttga	catcactatt	gattcttggt
10981	caaagtacac	agtggctact	gtttttcttt	gtttacgaga	atgctttctt	gccatttact
11041	cttgggtatta	tggcaattgc	tgcagtgtgt	atgctgcttg	ttaagcataa	gcacgcattc
11101	ttgtgcttgt	ttctgttacc	ttctcttgca	acagttgctt	actttaatat	ggcttacatg
11161	cctgctagct	gggtgatgcg	tatcatgaca	tggttgaat	tggtgacac	tagcttgctt
11221	ggttataggc	ttaaggattg	tgttatgtat	gcttcagctt	tagttttgct	tattctcatg
11281	acagctcgca	ctgtttatga	tgatgtgtgt	agacgtgttt	ggacactgat	gaatgtcatt
11341	acacttggtt	acaaagtcta	ctatggtaat	gcttttagatc	aagctatttc	catgtgggct
11401	ttagttattt	ctgtaacctc	taactattct	gggtgtcgta	cgactatcat	gttttttagct
11461	agagctatag	tgtttgtgtg	tgttgagtat	taccatttgt	tattttattac	tggcaacacc
11521	ttacagtgtg	tcattgcttg	ttattgtttc	ttaggctatt	gttgctgctg	ctactttggc
11581	cttttctggt	tactcaaccg	ttacttcagg	cttactcttg	gtgtttatga	ctacttggtc
11641	tctacacaag	aatttaggta	tatgaactcc	caggggcttt	tgcttccata	gagtagtatt
11701	gatgctttca	agcttaacat	taagttgttg	ggtattggag	gtaaaccatg	tatcaagggt
11761	gctactgtac	agtctaaaa	gtctgacgta	aagtgcacat	ctgtggtact	gctctcggtt
11821	cttcaacaac	ttagagtaga	gtcatcttct	aaattgtggg	cacaatgtgt	acaactccac
11881	aatgatattc	ttcttgcaaa	agacacaact	gaagctttcg	agaagatggg	ttctcttttg
11941	tctgttttgc	tatccatgca	gggtgctgta	gacattaata	ggttgtgcga	ggaaatgctc
12001	gataaccgtg	ctactcttca	ggctattgct	tcagaattta	gttctttacc	atcatatgcc
12061	gcttatgcca	ctgcccagga	ggcctatgag	caggctgtag	ctaattggta	ttctgaagtc
12121	gttctcaaaa	agttaaagaa	atctttgaat	gtggctaaat	ctgagtttga	ccgtgatgct
12181	gccatgcaac	gcaagttgga	aaagatggca	gatcaggcta	tgacccaaat	gtacaaacag
12241	gcaagatctg	aggacaagag	ggcaaaaagta	actagtgcta	tgcaaaacaat	gctcttcaact
12301	atgcttagga	agcttgataa	tgatgcactt	aacaacatta	tcaacaatgc	gcgtgatggg
12361	tgtgttccac	tcaacatcat	accattgact	acagcagcca	aactcatggg	tgttgcctct
12421	gattatggta	cctacaagaa	cacttgtgat	ggtaaacacct	ttacatatgc	atctgcactc
12481	tgggaaatcc	agcaagttgt	tgatgctggg	agcaagattg	ttcaacttag	tgaaattaac
12541	atggacaatt	caccaaattt	ggcttggcct	cttattgtta	cagctctaag	agccaaactca
12601	gctgttaaac	tacagaataa	tgaactgagt	ccagtagcac	tacgacagat	gtcctgtgctg
12661	gctggtacca	cacaaacagc	ttgtactgat	gacaatgcac	ttgcctacta	taacaattcg
12721	aagggaggta	ggtttgtgct	ggcattacta	tcagaccacc	aagatctcaa	atgggctaga
12781	ttccctaaga	gtgatggtag	aggtacaatt	tacacagaac	tggaaaccacc	ttgtagggtt
12841	gttacagaca	caccaaagg	gcctaaagt	aaatacttgt	acttcatcaa	aggcttaaac
12901	aacctaaata	gaggtatggg	gctgggcagt	ttagctgcta	cagtacgtct	tcaggctgga
12961	aatgctacag	aagtacctgc	caattcaact	gtgctttcct	tctgtgcttt	tcagtagagac
13021	cctgctaagg	catataagga	ttacctagca	agtggaggac	aaccaatcac	caactgtgtg
13081	aagatgttgt	gtacacacac	tggtacagga	caggcaatta	ctgtaacacc	agaagctaac
13141	atggaccaag	agtccttttg	tggtgcttca	tggtgtctgt	attgtagatg	ccacattgac
13201	catccaaatc	ctaaaggatt	ctgtgacttg	aaaggtaagt	acgtccaaat	acctaccact
13261	tgtgctaattg	accagtgagg	ttttacactt	agaaacacag	tctgtaccgt	ctgcgggaatg
13321	tggaaagggt	atggctgtag	ttgtgaccaa	ctccgcgaac	ccttgatgca	gtctgctggat
13381	gcatcaacgt	ttttaaacgg	gtttgctggtg	taagtgcagc	ccgtcttaca	ccgtgctggca

FIG. 10 Con't

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13441 caggcactag tactgatgtc gtctacaggg cttttgatat ttacaacgaa aaaagtgtctg
13501 gttttgcaaa gttcctaataa actaattgct gtcgcttcca ggagaaggat gaggaaggca
13561 atttattaga ctcttacttt gtagttaaga ggcatactat gtctaactac caacatgaag
13621 agactattta taacttggtt aaagattgtc cagcggttgc tgtccatgac tttttcaagt
13681 ttagagtaga tgggtgacatg gtaccacata tatcacgtca gcgtctaact aaatacacia
13741 tggctgattt agtctatgct ctacgtcatt ttgatgaggg taattgtgat acattaaaag
13801 aaatactcgt cacatacaat tgctgtgatg atgattattt caataagaag gattgggtatg
13861 acttcgtaga gaatcctgac atcttacgcg tatatgctaa cttagggtgag cgtgtacgcc
13921 aatcattatt aaagactgta caattctgcg atgctatgcg tgatgcaggc attgtaggcg
13981 tactgacatt agataatcag gatcttaatg ggaactggta cgatttcggt gatttcgtac
14041 aagtagcacc aggtcgcgga gttcctattg tggattcata ttactcattg ctgatgccca
14101 tcctcacttt gactagggca ttggctgctg agtcccatat ggatgtgtat ctcgcaaaac
14161 cacttattaa gtgggatttg ctgaaatagc attttacgga agagagactt tgtctcttcg
14221 accgttattt taaatatttg gaccagacat accatcccaa ttgtattaac tgtttggatg
14281 atagggtgat ctttcattgt gcaaacttta atgtgttatt ttctactgtg tttccacctt
14341 caagtttttg accactagta agaaaaatat ttgtagatgg tgttcctttt gttgtttcaa
14401 ctggatacca ttttcgtgag ttaggagtcg tacataatca ggatgtaaac ttacatagct
14461 cgcgtctcag tttcaaggaa ctttttagtgt atgctgctga tccagctatg catgcagctt
14521 ctggcaattt attgctagat aaacgcacta catgcttttc agtagctgca ctaacaaaca
14581 atgttgcttt tcaaactgtc aaaccgggta attttaataa agacttttat gactttgtctg
14641 tgtctaaagg tttctttaag gaaggaagtt ctggtgaact aaaacacttc tctttgtctc
14701 aggatggcaa cgctgctatc agtgattatg actattatcg ttataatctg ccaacaatgt
14761 gtgatatcag acaactccta ttcgtagtgt aagtgtgtga taaatacttt gattgttacg
14821 atgggtggctg tattaatgcc aaccaagtaa tcgttaacaa tctggataaa tcagctgggtt
14881 tcccatttaa taaatggggt aaggctagac tttattatga ctcaatgagt tatgaggatc
14941 aagatgcact tttcgcgtat actaagcgta atgtcatccc tactataact caaatgaatc
15001 ttaagtatgc cattagtgc aagaatagag ctgcgaccgt agctgggtgtc tctatctgta
15061 gtactatgac aaatagacag tttcatcaga aattattgaa gtcaatagcc gccactagag
15121 gagctactgt ggtaattgga acaagcaagt tttacgggtg ctggcataat atgttaaaaa
15181 ctgttttacg tgatgtagaa actccacacc ttatgggttg ggattatcca aaatgtgaca
15241 gagccatgcc taacatgctt aggataatgg cctctcttgt tcttgctcgc aaacataaca
15301 cttgctgtaa cttatcacac cgtttctaca ggtagctaa cgagtgtgcg caagtattaa
15361 gtgagatggc catgtgtggc ggctcactat atgttaaacc aggtggaaca tcatccggtg
15421 atgctacaac tgcttatgct aatagtgtct ttaacatttg tcaagctgtt acagccaatg
15481 taaatgcact tctttcaact gatggtaata agatagctga caagtatgtc cgcaatctac
15541 aacacaggct ctatgagtgt ctctatagaa atagggatgt tgatcatgaa ttcgtggatg
15601 agtttttacg ttacctgctg aaacatttct ccatgatgat tctttctgat gatgccgttg
15661 tgtgctataa cagtaactat gcggtcaag gtttagtagc tagcattaag aactttaagg
15721 cagttcttta ttatcaaaaat aatgtgttca tgtctgaggc aaaatgttgg actgagactg
15781 accttactaa aggacctcac gaattttgct cacagcatac aatgctagtt aaacaaggag
15841 atgattacgt gtacctgctt taccagatc catcaagaat attaggcgca ggctgttttg
15901 tcgatgatat tgtcaaaaaca gatggtacac ttatgattga aaggttcgtg tcaactggcta
15961 ttgatgctta cccacttaca aaacatccta atcaggagta tgctgatgtc tttcacttgt
16021 atttacaata cattagaaag ttacatgatg agcttactgg ccacatgttg gacatgtatt
16081 ccgtaatgct aactaatgat aacacctcac ggtactggga acctgagttt tatgaggcta
16141 tgtacacacc acatacagtc ttgcaggctg taggtgcttg tgtattgtgc aattcacaga
16201 cttcacttcg ttgcgggtgcc tgtattagga gaccattcct atgttgcaag tgctgctatg
16261 accatgtcat ttcaacatca cacaaattag tgttgctgtt taatccctat gtttgcaatg
16321 cccaggttg tgatgtcact gatgtgacac aactgtatct aggaggtatg agctattatt
16381 gcaagtcaca taagcctccc attgttttct cattatgtgc taatggtcag gtttttggtt
16441 tatacaaaaa cacatgtgta ggcagtgaca atgtcactga cttcaatgcg atagcaacat
16501 gtgattggac taatgctggc gattacatac ttgccaacac ttgtactgag agactcaagc
16561 ttttcgcagc agaaacgctc aaagccactg aggaacatt taagctgtca tatggatttg
16621 ccaactgtacg cgaagtactc tctgacagag aattgcatct ttcatgggag gttggaaaac
16681 ctagaccacc attgaacaga aactatgtct ttactgggta ccgtgtaact aaaaatagta
16741 aagtacagat tggagagtac acctttgaaa aaggtgacta tgggtgatgct gttgtgtaca

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FIG. 10 Con't

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16801	gaggtactac	gacatacaag	ttgaatgttg	gtgattactt	tgtgttgaca	tctcacactg
16861	taatgccact	tagtgcacct	actctagtgc	cacaagagca	ctatgtgaga	attactggct
16921	tgtacccaac	actcaacatc	tcagatgagt	tttctagcaa	tgttgcaaat	tatcaaaagg
16981	tcggcatgca	aaagtactct	acactccaag	gaccacctgg	tactggtaag	agtcattttg
17041	ccatcggact	tgctctctat	tacccatctg	ctcgcatagt	gtatacggca	tgctctcatg
17101	cagctgttga	tgccctatgt	gaaaaggcat	taaaatatatt	gcccatagat	aaatgtagta
17161	gaatcatacc	tgcgcgtagc	cgcgtagagt	gttttgataa	attcaaagtg	aattcaacac
17221	tagaacagta	tgttttctgc	actgtaaatg	cattgccaga	aacaactgct	gacattgtag
17281	tctttgatga	aatctctatg	gctactaatt	atgacttgag	tgttgtcaat	gctagacttc
17341	gtgcaaaaca	ctacgtctat	attggcgatc	ctgctcaatt	accagcccc	cgcacattgc
17401	tgactaaagg	cacactagaa	ccagaatatt	ttaattcagt	gtgcagactt	atgaaaacaa
17461	taggtccaga	catgttcctt	ggaacttgtc	gccgttgtcc	tgctgaaatt	gttgacactg
17521	tgagtgcctt	agtttatgac	ataaagctaa	aagcacacaa	ggataagtca	gctcaatgct
17581	tcaaaatggt	ctacaaagg	gttattacac	atgatgtttc	atctgcaatc	aacagacctc
17641	aaataggcgt	tgtaagagaa	tttcttacac	gcaatcctgc	ttggagaaaa	gctgttttta
17701	tctcacctta	taattcacag	aacgctgtag	cttcaaaaat	cttaggattg	cctacgcaga
17761	ctgttgatcc	atcacaggg	tctgaatatg	actatgtcat	attcacacaa	actactgaaa
17821	cagcacactc	ttgtaatgtc	aaccgcttca	atgtggctat	cacaagggca	aaaattggca
17881	ttttgtgcat	aatgtctgat	agagatcttt	atgacaaact	gcaatttaca	agctagaaaa
17941	taccacgtcg	caatgtggct	acattacaag	cagaaaaatgt	aactggactt	tttaaggact
18001	gtagtaagat	cattactgg	cttcactcta	cacaggcacc	tacacacctc	agcgttgata
18061	taaaattcaa	gactgaagga	ttatgtgttg	acataccagg	cataccaaag	gacatgacct
18121	accgtagact	catctctatg	atgggtttca	aatgaatta	ccaagtcaat	ggttacccta
18181	atatgtttat	cacccgcgaa	gaagctattc	gtcacgttcg	tgcggtgatt	ggctttgatg
18241	tagagggctg	tcatgcaact	agagatgctg	tgggtactaa	cctacctctc	cagctaggat
18301	tttctacagg	tgtaacttta	gtagctgtac	cgactgggta	tggtgacact	gaaaataaca
18361	cagaattcac	cagagttaat	gcaaaacctc	caccagggtga	ccagtttaaa	catcttatac
18421	cactcatgta	taaaggcttg	ccctggaatg	tagtgcgtat	taagatagta	caaattgctca
18481	gtgatacact	gaaaggattg	tcagacagag	tcgtgttcgt	cctttgggcg	catggctttg
18541	agctttacatc	aatgaagtac	tttgtcaaga	ttggacctga	aagaacgtgt	tgtctgtgtg
18601	acaaacgtgc	aacttgcttt	tctacttcat	cagatactta	tgccctgctgg	aatcattctg
18661	tgggttttga	ctatgtctat	aacccattta	tgattgatgt	tcagcagtg	ggctttacgg
18721	gtaaccttca	gagtaaccat	gaccaacatt	gccaggtaca	tggaaatgca	catgtggcta
18781	gttgtgatgc	tatcatgact	agatgtttag	cagtcctatga	gtgctttgtt	aagcgcgttg
18841	attgggtctgt	tgaataccct	attataggag	atgaactgag	ggttaattct	gcttgcagaa
18901	aagtacaaca	catgggtgtg	aagtctgcat	tgcttgctga	taagtttcca	gttcttcagt
18961	acattggaaa	tccaaaggct	atcaagtgtg	tgccctcaggc	tgaagtagaa	tggaaagctt
19021	acgatgctca	gccatgtagt	gacaaagctt	acaaaataga	ggaactcttc	tattcttatg
19081	ctacacatca	cgataaattc	actgtgggtg	tttgtttgtt	ttggaattgt	aacgttgatc
19141	gttaccacgc	caatgcaatt	gtgtgtaggt	ttgacacaag	agtcttgtca	aacttgaact
19201	taccaggctg	tgatgggtgg	agtttgtatg	tgaataagca	tgcatccac	actccagctt
19261	tcgataaaaag	tgcatcttact	aattttaaagc	aattgccttt	cttttactat	tctgatagtc
19321	cttgtgagtc	tcatggcaaa	caagtagtgt	cggatattga	ttatgttcca	ctcaaactctg
19381	ctacgtgtat	tacacgatgc	aatttaggtg	gtgctgtttg	cagacaccat	gcaaagttagt
19441	accgacagta	cttggatgca	tataatatga	tgatttctgc	tggatttagc	ctatggattt
19501	acaaacaatt	tgatacttat	aacctgtgga	atacatttac	caggttacag	agtttagaaa
19561	atgtggctta	taatgttgtt	aataaaggac	actttgatgg	acacgccggc	gaagcacctg
19621	tttccatcat	taataatgct	gtttacacaa	aggtagatgg	tattgatgtg	gagatctttg
19681	aaaataagac	aacacttcct	gttaatgttg	catttgagct	ttgggctaag	cgtaacatta
19741	aaccagtgcc	agagattaag	atactcaata	atgtgggtgt	tgatatcgct	gctaatactg
19801	taatctggga	ctacaaaaga	gaagccccag	cacatgtatc	tacaataggt	gtctgcacaa
19861	tgactgacat	tgccaagaaa	cctactgaga	gtgcttggtc	ttcacttact	gtctgttttg
19921	atggtagagt	ggaaggacag	gtagaccttt	ttagaaacgc	ccgtaatgg	gttttaataa
19981	cagaagggttc	agtcaaagg	ctaacacctt	caaagggacc	agcacaagct	agcgtcaatg
20041	gagtcacatt	aattggagaa	tcagtaaaaa	cacagtttaa	ctactttaag	aaagtagacg
20101	gcattattca	acagttgcct	gaaacctact	ttactcagag	cagagactta	gaggatttta

FIG. 10 Con't

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20161	agcccagatc	acaaatggaa	actgactttc	tcgagctcgc	tatggatgaa	ttcatcacgc
20221	gatataagct	cgagggttat	gccttcgaac	acatcgttta	tggagatttc	agtcatggac
20281	aacttgccg	tcttcattta	atgataggct	tagccaagcg	ctcacaagat	tcaccactta
20341	aattagagga	ttttatccct	atggacagca	cagtgaaaaa	ttacttcata	acagatgcgc
20401	aaacagggtt	atcaaaatgt	gtgtgttctg	tgattgatct	tttacttgat	gactttgtcg
20461	agataataaa	gtcacaagat	ttgtcagtga	tttcaaaagt	ggtcaagggt	acaattgact
20521	atgctgaaat	ttcattcatg	ctttgggtgta	aggatggaca	tggtgaaacc	ttctacccaa
20581	aactacaagc	aagtcaagcg	tggcaaccag	gtgttgcgat	gcctaacttg	tacaagatgc
20641	aaagaatgct	tcttgaaaag	tgtgaccttc	agaattatgg	tgaaaatgct	gttatacca
20701	aaggaataat	gatgaatgtc	gcaaagtata	ctcaactgtg	tcaatactta	aatacactta
20761	cttttagctgt	accctacaac	atgagagtta	ttcactttgg	tgctggctct	gataaaggag
20821	ttgcaccagg	tacagctgtg	ctcagacaat	ggttgccaac	tggcacacta	cttgtcgatt
20881	cagatcttaa	tgacttcgtc	tccgacgcag	attctacttt	aattggagac	tgtgcaacag
20941	tacatacggc	taataaatgg	gaccttatta	ttagcgatat	gtatgacctt	aggaccaaac
21001	atgtgacaaa	agagaatgac	tctaaagaag	ggtttttcac	ttatctgtgt	ggattttata
21061	agcaaaaact	agccctgggt	ggttctatag	ctgtaaagat	aacagagcat	tcttggaatg
21121	ctgaccttta	caagcttatg	ggccatttct	catgggtggac	agcttttgtt	acaaatgtaa
21181	atgcatcatc	atcggaagca	tttttaattg	gggctaacta	tcttggaag	ccgaaggaac
21241	aaattgatgg	ctataccatg	catgctaact	acattttctg	gaggaacaca	aatcctatcc
21301	agttgtcttc	ctattcactc	tttgacatga	gcaaatcttc	tcttaaatga	agaggaactg
21361	ctgtaatgtc	tcttaaggag	aatcaaatca	atgatatgat	ttattctctt	ctggaaaaag
21421	gtaggcttat	cattagagaa	aacaacagag	ttgtgggttc	aagtgatatt	cttgtaacaa
21481	actaaacgaa	catgtttatt	ttcttattat	ttcttactct	cactagtggg	agtgaccttg
21541	accggtgcac	cacttttgat	gatgttcaag	ctcctaatta	cactcaacat	acttcatcta
21601	tgaggggggt	ttactatcct	gatgaaattt	ttagatcaga	cactctttat	ttactcagg
21661	atttatttct	tccattttat	tctaattgta	caggggttca	tactattaat	catacgtttg
21721	gcaaccctgt	catacctttt	aaggatggta	tttattttgc	tgccacagag	aaatcaaatg
21781	ttgtccgtgg	ttgggttttt	ggttctacca	tgaacaacaa	gtcacagtcg	gtgattatta
21841	ttaacaattc	tactaatggt	gttatcacag	catgtaactt	tgaattgtgt	gacaaccctt
21901	tctttgctgt	ttctaaaccc	atgggtacac	agacacatac	tatgatattc	gataatgcat
21961	ttaattgcac	tttcgagtac	atatctgatg	ccttttcgct	tgatgtttca	gaaaagtcag
22021	gtaattttta	acacttacga	gagtttgtgt	ttaaaaataa	agatgggttt	ctctatgttt
22081	ataagggcta	tcaacctata	gatgtagtgc	gtgatctacc	ttctgggttt	aacactttga
22141	aacctatttt	taagttgcct	cttggtatta	acattacaaa	ttttagagcc	attcttacag
22201	ccttttcacc	tgctcaagac	atttggggca	cgtcagctgc	agcctatttt	gttggtattt
22261	taaagccaac	tacattttat	ctcaagtatg	atgaaaatgg	tacaatcaca	gatgctgttg
22321	attgttctca	aaatccactt	gctgaactca	aatgctctgt	taagagcttt	gagattgaca
22381	aaggaattta	ccagacctct	aatttcaggg	ttgttccttc	aggagatggt	gtgatttcc
22441	ctaataattc	aaacttgtgt	ccttttggag	agggttttaa	tgctactaaa	ttccctctctg
22501	tctatgcatg	ggagagaaaa	aaaatttcta	attgtgttgc	tgattactct	gtgctctaca
22561	actcaacatt	tttttcaacc	tttaagtgtc	atggcgtttc	tgccactaag	ttgaatgatc
22621	tttgcttctc	caatgtctat	gcagattcct	ttgtagtcaa	gggagatgat	gtaagacaaa
22681	tagcgccagg	acaaactggg	gttattgctg	attataatta	taaattgcca	gatgatttca
22741	tgggttgtgt	ccttgcttgg	aatactagga	acattgatgc	tacttcaact	ggtaattata
22801	attataaata	taggtatcct	agacatggca	agcttagggc	ctttgagaga	gacatatcta
22861	atgtgccttt	ctccctctgt	ggcaaacctt	gcacccacc	tgctcttaat	tgttattggc
22921	cattaaatga	ttatgggttt	tacaccacta	ctggcattgg	ctaccaacct	tcacaggttg
22981	tagtactttc	ttttgaactt	ttaaatgcac	cggccacggg	ttgtggacca	aaattatcca
23041	ctgttaactat	taagaaccag	tgtgtcaatt	ttaattttaa	tggactcact	ggtagtggg
23101	tgtttaactcc	ttcttcaaag	agattttcaac	catttcaaca	atttggccgt	gatgtttctg
23161	atttctactga	ttccgttcga	gatacctaaa	catctgaaat	attagacatt	tcaccttgct
23221	cttttggggg	tgtaagtgtg	attacacctg	gaacaaatgc	ttcatctgaa	gttgctgttc
23281	tatatcaaga	tgtaactgct	actgatgttt	ctacagcaat	tcattgcagat	caactcacac
23341	cagcttggcg	catatatctt	actggaaaaca	atgtattcca	gactcaagca	ggctgtctta
23401	taggagctga	gcattgtcgac	acttcttatg	agtgcgacat	tcctattgga	gctggcattt
23461	gtgctagtta	ccatacagtt	tctttattac	gtagtactag	ccaaaaatct	attgtggcct

FIG. 10 Con't

23521	atactatgtc	tttaggtgct	gatagttcaa	ttgcttactc	taataacacc	attgctatac
23581	ctactaactt	ttcaattagc	attactacag	aagtaatgcc	tgtttctatg	gctaaaacct
23641	ccgtagattg	taatatgtac	atctgcgagg	attctactga	atgtgctaata	ttgcttctcc
23701	aatatggtag	cttttgcaca	caactaaatc	gtgcactctc	aggtattgct	gctgaacagg
23761	atcgcaacac	acgtgaagtg	ttcgctcaag	tcaaaacaaat	gtacaaaacc	ccaactttga
23821	aatattttgg	tggttttaaat	ttttcacaaa	tattacctga	ccctctaaag	ccaactaaga
23881	ggtcttttat	tgaggacttg	ctctttaata	aggtgacact	cgctgatgct	ggcttcatga
23941	agcaatatgg	cgaatgccta	ggtgatatta	atgctagaga	tctcatttgt	gcgcagaagt
24001	tcaatggact	tacagtgttg	ccacctctgc	tcaactgatga	tatgattgct	gcctacactg
24061	ctgctctagt	tagtggtact	gccactgctg	gatggacatt	tggtgctggc	gctgctcttc
24121	aaataccttt	tgctatgcaa	atggcatata	ggttcaatgg	cattggagtt	ccccaaaatg
24181	ttctctatga	gaacccaaaa	caaatcgcca	accaatttaa	caaggcgatt	agtcaaattc
24241	aagaatcact	tacaacaaca	tcaactgcat	tgggcaagct	gcaagacgtt	gttaaccaga
24301	atgctcaagc	attaaacaca	cttggttaaac	aacttagctc	taattttggg	gcaatttcaa
24361	gtgtgctaaa	tgatatcctt	tcgcgacttg	ataaagtcga	ggcggaggta	caaattgaca
24421	ggttaattac	aggcagactt	caaagccttc	aaacctatgt	aacacaacaa	ctaatacagg
24481	ctgctgaaat	cagggccttc	gctaactctg	ctgctactaa	aatgtctgag	tgtgttcttg
24541	gacaatcaaa	aagagttgac	ttttgtggaa	agggctacca	ccttatgtcc	ttcccacaag
24601	cagccccgca	tggtgttgct	ttcctacatg	tcacgtatgt	gccatcccg	gagaggaact
24661	tcaccacagc	gccagcaatt	tgtcatgaag	gcaaagcata	cttccctcgt	gaaggtgttt
24721	ttgtgtttta	tggcacttct	tggtttatta	cacagaggaa	cttcttttct	ccacaaataa
24781	ttactacaga	caatacattt	gtctcaggaa	attgtgatgt	cgttattggc	atcattaaca
24841	acacagttta	tgatcctctg	caacctgagc	ttgactcatt	caaagaagag	ctggacaagt
24901	acttcaaaaa	tcatacatca	ccagatgttg	atcttggcga	catttcaggc	attaacgctt
24961	ctgtcgtaaa	cattcaaaaa	gaaattgacc	gcctcaatga	ggtcgctaaa	aatttaaatg
25021	aatcactcat	tgaccttcaa	gaattgggaa	aatatgagca	atatattaaa	tggccttggt
25081	atgtttggct	cggcttcatt	gctggactaa	ttgccatcgt	catggttaca	atcttgcttt
25141	gttgcatgac	tagttgttgc	agttgcctca	aggggtgcag	ctcttggtgt	ctttgctgca
25201	agtttgatga	ggatgactct	gagccagttc	tcaaggggtg	caaattacat	tacacataaa
25261	cgaacttatg	gatttgttta	tgagattttt	tactcttggg	tcaattactg	cacagccagt
25321	aaaaattgac	aatgcttctc	ctgcaagtac	tgttcatgct	acagcaacga	taccgctaca
25381	agcctcactc	cctttcggat	ggcttggtat	tggcggttga	tttcttgctg	tttttcagag
25441	cgtaccacaa	ataattgctc	tcaataaaaag	atggcagcta	gccctttata	agggcttcca
25501	gttcatttgc	aatttactgc	tgctatattg	taccatctat	tcacatcttt	tgcttgctgc
25561	tgcaggtaag	gaggcgcaat	ttttgtacct	ctatgccttg	atatattttc	tacaatgcat
25621	caacgcctgt	agaattatta	tgagatgttg	gctttgttgg	aagtgcacaa	ccaagaacct
25681	attactttat	gatgccaaact	actttgtttg	ctggcacaca	cataactatg	actactgtat
25741	accatataac	agtgtcacag	atacaattgt	cgttactgaa	ggtgacggca	tttcaacacc
25801	aaaactcaaa	gaagactacc	aaattggtgg	ttattctgag	gataggcact	caggtgttaa
25861	agactatgtc	gttgtagatg	gctattttcac	cgaagtttac	taccagcttg	agtctacaca
25921	aattactaca	gacactggta	ttgaaaatgc	tacattcttc	atctttaaca	agcttggttaa
25981	agaccaccg	aatgtgcaaa	tacacacaat	cgacggctct	tcaggagttg	ctaataccagc
26041	aatggatcca	atttatgatg	agccgacgac	gactactagc	gtgcctttgt	aagcacaaga
26101	aagttagtac	gaacttatgt	actcattcgt	ttcggaagaa	acaggtagct	taatagttaa
26161	tagcgtactt	ctttttcttg	ctttcgtggg	attcttgcta	gtcacactag	ccatccttac
26221	tcgccttcga	ttgtgtgctg	actgctgcaa	tattgttaac	gtgagtttag	taaaaccaac
26281	ggtttacgtc	tactcgctg	ttaaaaactc	gaactcttct	gaaggagttc	ctgatcttct
26341	ggtctaaacg	aactaactat	tattattatt	ctgtttggaa	ctttaacatt	gcttatcatg
26401	gcagacaacg	gtactattac	cgttgaggag	cttaaacac	tcctggaaca	atggaacct
26461	gtaataggtt	tcctattcct	agcctggatt	atgttactac	aatttgccca	ttctaactcg
26521	aacaggtttt	tgtacataat	aaagcttggt	ttcctctggc	tcttggtggc	agtaacactt
26581	gcttggtttg	tgcttgctgt	tgtctacaga	attaattggg	tgactggcgg	gattgagatt
26641	gcaatggctt	gtattgtagg	cttgatgtgg	cttagctact	tcggtgcttc	cttcaggctg
26701	tttgctcgta	cccgtcfaat	gtggtcattc	aaccagaaa	caaacattct	tctcaatgtg
26761	cctctccggg	ggacaattgt	gaccagaccg	ctcatggaaa	gtgaacttgt	cattggtgct
26821	gtgatcattc	gtggtcactt	gcgaatggcc	ggacactccc	tagggcgctg	tgacattaag

FIG. 10 Con't

26881	gacctgccaa	aagagatcac	tgtggctaca	tcacgaacgc	tttcttatta	caaattagga
26941	gcgtcgcac	gtgtaggcac	tgattcaggt	tttgctgcat	acaaccgcta	ccgtattgga
27001	aactataaat	taaatacaga	ccacgccggt	agcaacgaca	atattgcttt	gctagtacag
27061	taagtgacaa	cagatgtttc	atcttgttga	cttccaggtt	acaatagcag	agatattgat
27121	tatcattatg	aggactttca	ggattgctat	ttggaatctt	gacgttataa	taagttcaat
27181	agtgagacaa	ttattttaagc	ctctaactaa	gaagaattat	tcggagttag	atgatgaaga
27241	acctatggag	ttagattatc	cataaaacga	acatgaaaat	tattctcttc	ctgacattga
27301	ttgtattttac	atcttgcgag	ctatatcact	atcaggagtg	tgtagagggt	acgactgtac
27361	tactaaaaga	accttgccca	tcaggaacat	acgagggcaa	ttcaccattt	cacctctctg
27421	ctgacaataa	atttgcacta	acttgcacta	gcacacactt	tgcttttgct	tgtgctgacg
27481	gtactcgaca	tacctatcag	ctgcgtgcaa	gatcagtttc	accaaactt	ttcatcagac
27541	aagaggaggt	tcaacaagag	ctctactcgc	cactttttct	cattgttgct	gctctagtat
27601	ttttaatact	ttgcttcacc	attaagagaa	agacagaatg	aatgagctca	ctttaattga
27661	cttctatttg	tgctttttag	cctttctgct	attccttggt	ttaataatgc	ttattatatt
27721	ttgggttttca	ctcgaaatcc	aggatctaga	agaaccttgt	accaaagtct	aaacgaacat
27781	gaaacttctc	attgttttga	cttgatattc	tctatgcagt	tgcatatgca	ctgtagtaca
27841	gcgctgtgca	tctaataaac	ctcatgtgct	tgaagatcct	tgtaaggtag	aacactaggg
27901	gtaatactta	tagcactgct	tggttttggt	ctctaggaaa	ggttttacct	tttcatagat
27961	ggcacactat	ggttcaaaca	tgcacaccta	atgttactat	caactgtcaa	gatccagctg
28021	gtggtgcgct	tatagctagg	tgttggtacc	ttcatgaagg	tcaccaaact	gctgcattta
28081	gagacgtact	tggtgtttta	aataaacgaa	caaatataaa	tgtctgataa	tggaccccaa
28141	tcaaaccaac	gtagtcccc	ccgcattaca	tttgggtggac	ccacagattc	aactgacaat
28201	aaccagaatg	gaggacgcaa	tggggcaagg	ccaaaacagc	gccgacccca	aggtttacct
28261	aataaacttg	cgtcttggtt	cacagctctc	actcagcatg	gcaaggagga	acttagattc
28321	cctcgaggcc	agggcggtcc	aatcaacacc	aatagtgggc	cagatgacca	aattggctac
28381	taccgaagag	ctacccgacg	agttcgtggt	ggtgacggca	aaatgaaaga	gctcagcccc
28441	agatggtact	tctattacct	aggaactggc	ccagaagctt	cacttcccta	cggcgctaac
28501	aaagaaggca	tcgtatgggt	tgcaactgag	ggagccttga	atacacccaa	agaccacatt
28561	ggcaccgcga	atcctaataa	caatgctgcc	accgtgctac	aacttcccta	aggacaaca
28621	ttgccaaaag	gcttctacgc	agagggaaagc	agaggcggca	gtcaagcctc	ttctcgctcc
28681	tcatacagta	gtcgcggtaa	ttcaagaaat	tcaactcctg	gcagcagtag	gggaaattct
28741	cctgctcgaa	tggctagcgg	aggtggtgaa	actgccctcg	cgctattgct	gctagacaga
28801	ttgaaccagc	ttgagagcaa	agtttctggt	aaaggccaac	aacaacaagg	ccaaactgtc
28861	actaagaaat	ctgctgctga	ggcatctaaa	aagcctcgcc	aaaaacgtac	tgccacaaaa
28921	cagtacaacg	tactcaagc	atttgggaga	cgtgggtccag	aacaaaccca	aggaaatttc
28981	ggggaccaag	acctaatacag	acaaggaact	gattacaaac	attggccgca	aattgcacaa
29041	tttgctccaa	gtgcctctgc	attctttgga	atgtcacgca	ttggcatgga	agtcacacct
29101	tcgggaacat	ggctgactta	tcattggagcc	attaaattgg	atgacaaaga	tccacaattc
29161	aaagacaacg	tcatactgct	gaacaagcac	attgacgcat	acaaaacatt	cccaccaaca
29221	gagcctaaaa	aggacaaaaa	gaaaaagact	gatgaagctc	agcctttgcc	gcagagacaa
29281	aagaagcagc	ccactgtgac	tcttcttctc	gcggctgaca	tggatgattt	ctccagacaa
29341	cttcaaaatt	ccatgagtgg	agcttctgct	gattcaactc	aggcataaac	actcatgatg
29401	accacacaag	gcagatgggc	tatgtaaacg	ttttcgcaat	tccgtttacg	atacatagtc
29461	tactcttggtg	cagaatgaat	tctcgtaact	aaacagcaca	agtaggttta	gttaacttta
29521	atctcacata	gcaatcttta	atcaatgtgt	aacattaggg	aggacttgaa	agagccacca
29581	cattttctatc	gaggccacgc	ggagtacgat	cgagggtaca	gtgaataatg	ctagggagag
29641	ctgcctatat	ggaagagccc	taatgtgtaa	aattaatttt	agtagtgcta	tccccatgtg
29701	attttaatag	cttcttagga	gaatgacaaa	aaaaaaaaaa	aa	

FIG. 10 Con't

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1 - ATATTAGGTTTTTACCTACCCAGGAAAAGCCAACCAACCTCGATCTCTTGTAGATCTGTT - 60
- I L G F Y L P R K S Q P T S I S C R S V
- Y * V F T Y P G K A N Q P R S L V D L F
- I R F L P T Q E K P T N L D L L * I C S
61 - CTCTAAACGAACTTTAAATCTGTGTAGCTGTGCTCGGCTGCATGCCTAGTGCACCTAC - 120
- L * T N F K I C V A V A R L H A * C T Y
- S K R T L K S V * L S L G C M P S A P T
- L N E L * N L C S C R S A A C L V H L R
121 - GCAGTATAAACAATAATAAATTTTACTGTGCTTGACAAGAAACGAGTAACTCGTCCCTCT - 180
- A V * T I I N F T V V D K K R V T R P S
- Q Y K Q * * I L L S L T R N E * L V P L
- S I N N N K F Y C R * Q E T S N S S L F
181 - TCTGCAGACTGCTTACGGTTTTCGTCCGTGTTGCAGTCGATCATCAGCATACCTAGGTTTC - 240
- S A D C L R F R P C C S R S S A Y L G F
- L Q T A Y G F V R V A V D H Q H T * V S
- C R L L T V S S V L Q S I I S I P R F R
241 - GTCCGGGTGTGACCGAAAGGTAAGATGGAGAGCCTTGTCTTGGTGTCAACGAGAAAAACA - 300
- V R V * P K G K M E S L V L G V N E K T
- S G C D R K V R W R A L F L V S T R K H
- P G V T E R * D G E P C S W C Q R E N T
301 - CACGTCCAACCTAGTTTGCCTGTCTTCAGGTTAGAGACGTGCTAGTGCCTGGCTTCGGG - 360
- H V Q L S L P V L Q V R D V L V R G F G
- T S N S V C L S F R L E T C * C V A S G
- R P T Q F A C P S G * R R A S A W L R G
361 - GACTCTGTGGAAGAGGCCCTATCGGAGGCACGTGAACACCTCAAAAATGGCACTTGTGGT - 420
- D S V E E A L S E A R E H L K N G T C G
- T L W K R P Y R R H V N T S K M A L V V
- L C G R G P I G G T * T P Q K W H L W S
421 - CTAGTAGAGCTGGA AAAAGGCGTACTGCCCCAGCTTGAACAGCCCTATGTGTTTCATTA - 480
- L V E L E K K G V L P Q L E Q P Y V F I K
- * * S W K K A Y C P S L N S P M C S L N
- S R A G K R R T A P A * T A L C V H * T
481 - CGTTCTGATGCCTTAAGCACCAATCACGGCCACAAGGTCGTTGAGCTGGTTGCAGAAATG - 540
- R S D A L S T N H G H K V V E L V A E M
- V L M P * A P I T A T R S L S W L Q K W
- F * C L K H Q S R P Q G R * A G C R N G
541 - GACGGCATTAGTACGGTCGTAGCGGTATAACACTGGGAGTACTCGTGCCACATGTGGGC - 600
- D G I Q Y G R S G I T L G V L V P H V G
- T A F S T V V A V * H W E Y S C H M W A
- R H S V R S * R Y N T G S T R A T C G R
601 - GAAACCCCAATTGCATACCGCAATGTTCTTCTTCGTAAGAACGGTAATAAGGGAGCCGGT - 660
- E T P I A Y R N V L L R K N G N K G A G
- K P Q L H T A M F F F V R T V I R E P V
- N P N C I P Q C S S S * E R * * G S R W
661 - GGTCATAGCTATGGCATCGATCTAAAGTCTTATGACTTAGGTGACGAGCTTGGCACTGAT - 720
- G H S Y G I D L K S Y D L G D E L G T D
- V I A M A S I * S L M T * V T S L A L I
- S * L W H R S K V L * L R * R A W H * S
721 - CCCATTGAAGATTATGAACAAAACCTGGAACACTAAGCATGGCAGTGGTGCCTCCGTGAA - 780
- P I E D Y E Q N W N T K H G S G A L R E
- P L K I M N K T G T L S M A V V H S V N
- H * R L * T K L E H * A W Q W C T P * T
781 - CTCACTCGTGAGCTCAATGGAGGTGCAGTCACTCGCTATGTGACAACAATTTCTGTGGC - 840
- L T R E L N G G A V T R Y V D N N F C G
- S L V S S M E V Q S L A M S T T I S V A
- H S * A Q W R C S H S L C R Q Q F L W P

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FIG. 11

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841 - CCAGATGGGTACCCTCTTGATTGCATCAAAGATTTTCTCGCACGCGCGGGCAAGTCAATG - 900
- P D G Y P L D C I K D F L A R A G K S M
- Q M G T L L I A S K I F S H A R A S Q C
- R W V P S * L H Q R F S R T R G Q V N V
901 - TGCCTCTTTCCGAACAACCTTGATTACATCGAGTCGAAGAGAGGTGTCTACTGCTGCCGT - 960
- C T L S E Q L D Y I E S K R G V Y C C R
- A L F P N N L I T S S R R E V S T A A V
- H S F R T T * L H R V E E R C L L L P *
961 - GACCATGAGCATGAAATTGCCTGGTTCACTGAGCGCTCTGATAAGAGCTACGAGCACCAG - 1020
- D H E H E I A W F T E R S D K S Y E H Q
- T M S M K L P G S L S A L I R A T S T R
- P * A * N C L V H * A L * * E L R A P D
1021 - ACACCTTCGAAATTAAGAGTGCCAAGAAATTTGACACTTTCAAAGGGGAATGCCCAAAG - 1080
- T P F E I K S A K K F D T F K G E C P K
- H P S K L R V P R N L T L S K G N A Q S
- T L R N * E C Q E I * H F Q R G M P K V
1081 - TTTGTGTTTCTCTTAACCTCAAAGTCAAAGTCATTCAACCACGTGTTGAAAAGAAAAAG - 1140
- F V F P L N S K V K V I Q P R V E K K K
- L C F L L T Q K S K S F N H V L K R K R
- C V S S * L K S Q S H S T T C * K E K D
1141 - ACTGAGGGTTTCATGGGGCGTATACGCTCTGTGTACCCTGTTGCATCTCCACAGGAGTGT - 1200
- T E G F M G R I R S V Y P V A S P Q E C
- L R V S W G V Y A L C T L L H L H R S V
- * G F H G A Y T L C V P C C I S T G V *
1201 - AACAAATATGCACTTGTCTACCTTGATGAAATGTAATCATTGCGATGAAGTTTCATGGCAG - 1260
- N N M H L S T L M K C N H C D E V S W Q
- T I C T C L P * * N V I I A M K F H G R
- Q Y A L V Y L D E M * S L R * S F M A D
1261 - ACGTGCCTACTTTCTGAAAGCCACTTGTGAACATTGTGGCACTGAAAATTTAGTTATTGAA - 1320
- T C D F L K A T C E H C G T E N L V I E
- R A T F * K P L V N I V A L K I * L L K
- V R L S E S H L * T L W H * K F S Y * R
1321 - GGACCTACTACATGTGGGTACCTACCTACTAATGCTGTAGTGAAAATGCCATGTCTCTGCC - 1380
- G P T T C G Y L P T N A V V K M P C P A
- D L L H V G T Y L L M L * * K C H V L P
- T Y Y M W V P T Y * C C S E N A M S C L
1381 - TGTCAAGACCCAGAGATTGGACCTGAGCATAGTGTGAGATTATCACAACCACTCAAAC - 1440
- C Q D P E I G P E H S V A D Y H N H S N
- V K T Q R L D L S I V L Q I I T T T Q T
- S R P R D W T * A * C C R L S Q P L K H
1441 - ATTGAAACTCGACTCCGCAAGGGAGGTAGGACTAGATGTTTTGGAGGCTGTGTGTTTGCC - 1500
- I E T R L R K G G R T R C F G G C V F A
- L K L D S A R E V G L D V L E A V C L P
- * N S T P Q G R * D * M F W R L C V C L
1501 - TATGTTGGCTGCTATAATAAGCGTGCCTACTGGGTTCTCGTCTAGTGTGATATTGGC - 1560
- Y V G C Y N K R A Y W V P R A S A D I G
- M L A A I I S V P T G F L V L V L I L A
- C W L L * * A C L L G S S C * C * Y W L
1561 - TCAGGCCATACTGGCATTACTGGTGACAATGTGGAGACCTTGAATGAGGATCTCCTTGAG - 1620
- S G H T G I T G D N V E T L N E D L L E
- Q A I L A L L V T M W R P * M R I S L R
- R P Y W H Y W * Q C G D L E * G S P * D
1621 - ATACTGAGTCGTGAACGTGTTAACATTAACATTGTTGGCGATTTTCATTTGAATGAAGAG - 1680
- I L S R E R V N I N I V G D F H L N E E
- Y * V V N V L T L T L L A I F I * M K R
- T E S * T C * H * H C W R F S F E * R G

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FIG. 11 Con't

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1681 - GTTGCCATCATTTTTGGCATCTTTCTCTGCTTCTACAAGTGCCTTTATTGACACTATAAAG - 1740
- V A I I L A S F S A S T S A F I D T I K
- L P S F W H L S L L L Q V P L L T L * R
- C H H F G I F L C F Y K C L Y * H Y K E
1741 - AGTCTTGATTACAAGTCTTTCAAAACCATTGTTGAGTCCTGCGGTAACATAAAGTTACC - 1800
- S L D Y K S F K T I V E S C G N Y K V T
- V L I T S L S K P L L S P A V T I K L P
- S * L Q V F Q N H C * V L R * L * S Y Q
1801 - AAGGGAAAGCCCGTAAAAGGTGCTTGGAAACATTGGACAACAGAGATCAGTTTTAACACCA - 1860
- K G K P V K G A W N I G Q Q R S V L T P
- R E S P * K V L G E T L D N R D Q F * H H
- G K A R K R C L E H W T T E I S F N T T
1861 - CTGTGTGGTTTTCCCTCACAGGCTGCTGGTGTATCAGATCAATTTTTGCGCGCACACTT - 1920
- L C G F P S Q A A G V I R S I F A R T L
- C V V F P H R L L V L S D Q F L R A H L
- V W F S L T G C W C Y Q I N F C A H T *
1921 - GATGCAGCAAACCACTCAATTCCTGATTTGCAAAGAGCAGCTGTCACCATACTTGATGGT - 1980
- D A A N H S I P D L Q R A A V T I L D G
- M Q Q T T Q F L I C K E Q L S P Y L M V
- C S K P L N S * F A K S S C H H T * W Y
1981 - ATTTCTGAACAGTCATTACGTCTTGTGACGCCATGGTTTATACTTCAGACCTGCTCACC - 2040
- I S E Q S L R L V D A M V Y T S D L L T
- F L N S H Y V L S T P W F I L Q T C S P
- F * T V I T S C R R H G L Y F R P A H Q
2041 - AACAGTGTCAATTATTATGGCATATGTAAGTGGTGGTCTTGTACAACAGACTTCTCAGTGG - 2100
- N S V I I M A Y V T G G L V Q Q T S Q W
- T V S L L W H M * L V V L Y N R L L S G
- Q C H Y Y G I C N W W S C T T D F S V V
2101 - TTGTCTAATCTTTTGGGCACTACTGTTGAAAAACTCAGGCCTATCTTTGAATGGATTGAG - 2160
- L S N L L G T T V E K L R P I F E W I E
- C L I F W A L L L K N S G L S L N G L R
- V * S F G H Y C * K T Q A Y L * M D * G
2161 - GCGAAACTTAGTGCAGGAGTTGAATTTCTCAAGGATGCTTGGGAGATTCTCAAATTTCTC - 2220
- A K L S A G V E F L K D A W E I L K F L
- R N L V Q E L N F S R M L G R F S N F S
- E T * C R S * I S Q G C L G D S Q I S H
2221 - ATTACAGGTGTTTTTGACATCGTCAAGGGTCAAATACAGGTTGCTTCAGATAACATCAAG - 2280
- I T G V F D I V K G Q I Q V A S D N I K
- L Q V F L T S S R V K Y R L L Q I T S R
- Y R C F * H R Q G S N T G C F R * H Q G
2281 - GATTGTGTAAAATGCTTCATTGATGTTGTAAACAAGGCACTCGAAATGTGCATTGATCAA - 2340
- D C V K C F I D V V N K A L E M C I D Q
- I V * N A S L M L L T R H S K C A L I K
- L C K M L H * C C * Q G T R N V H * S S
2341 - GTCATATCGCTGGCGCAAAGTTGCGATCACTCAACTTAGGTGAAGTCTTCATCGCTCAA - 2400
- V T I A G A K L R S L N L G E V F I A Q
- S L S L A Q S C D H S T * V K S S L K
- H Y R W R K V A I T Q L R * S L H R S K
2401 - AGCAAGGGACTTTACCGTCAGTGTATACGTGGCAAGGAGCAGCTGCAACTACTCATGCCT - 2460
- S K G L Y R Q C I R G K E Q L Q L L M P
- A R D F T V S V Y V A R S S C N Y S C L
- Q G T L P S V Y T W Q G A A A T T H A S
2461 - CTTAAGGCACCAAAAAGAAGTAACCTTTCTTGAAGGTGATTCACATGACACAGTACTTACC - 2520
- L K A P K E V T F L E G D S H D T V L T
- L R H Q K K * P F L K V I H M T Q Y L P
- * G T K R S N L S * R * F T * H S T Y L

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FIG. 11 Con't

2521 - TCTGAGGAGGTTGTTCTCAAGAACGGTGAACCTCGAAGCACTCGAGACGCCCCGTTGATAGC - 2580
 - S E E V V L K N G E L E A L E T P V D S
 - L R R L F S R T V N S K H S R R P L I A
 - * G G C S Q E R * T R S T R D A R * * L
 2581 - TTCACAAATGGAGCTATCGTCGGCACACCAGTCTGTGTAAATGGCCTCATGCTCTTAGAG - 2640
 - F T N G A I V G T P V C V N G L M L L E
 - S Q M E L S S A H Q S V * M A S C S * R
 - H K W S Y R R H T S L C K W P H A L R D
 2641 - ATTAAGGACAAAGAACAATACTGCGCATTGTCTCTGGTTTACTGGCTACAAACAATGTC - 2700
 - I K D K E Q Y C A L S P G L L A T N N V
 - L R T K N N T A H C L L V Y W L Q T M S
 - * G Q R T I L R I V S W F T G Y K Q C L
 2701 - TTTCGCTTAAAAGGGGTGCACCAATTAAGGTGTAACCTTTGGAGAAGATACTGTTTGG - 2760
 - F R L K G G A P I K G V T F G E D T V W
 - F A * K G V H Q L K V * P L E K I L F G
 - S L K R G C T N * R C N L W R R Y C L G
 2761 - GAAGTTCAAGGTTACAAGAATGTGAGAATCACATTTGAGCTTGATGAACGTGTTGACAAA - 2820
 - E V Q G Y K N V R I T F E L D E R V D K
 - K F K V T R M * E S H L S L M N V L T K
 - S S R L Q E C E N H I * A * * T C * Q S
 2821 - GTGCTTAATGAAAAGTGCTCTGTCTACTGTGAATCCGGTACCGAAGTTACTGAGTTT - 2880
 - V L N E K C S V Y T V E S G T E V T E F
 - C L M K S A L S T L L N P V P K L L S L
 - A * * K V L C L H C * I R Y R S Y * V C
 2881 - GCATGTGTTGTAGCAGAGGCTGTTGTGAAGACTTTACAACCAGTTTCTGATCTCCTTACC - 2940
 - A C V V A E A V V K T L Q P V S D L L T
 - H V L * Q R L L * R L Y N Q F L I S L P
 - M C C S R G C C E D F T T S F * S P Y Q
 2941 - AACATGGGTATTGATCTTGATGAGTGGAGTGTAGCTACATTCTACTTATTTGATGAGCT - 3000
 - N M G I D L D E W S V A T F Y L F D D A
 - T W V L I L M S G V * L H S T Y L M M L
 - H G Y * S * * V E C S Y I L L I * * C W
 3001 - GGTGAAGAAAACCTTTTCATCACGTATGTATTGTTCCCTTTTACCCTCCAGATGAGGAAGAA - 3060
 - G E E N F S S R M Y C S F Y P P D E E E
 - V K K T F H H V C I V P F T L Q M R K K
 - * R K L F I T Y V L F L L P S R * G R R
 3061 - GAGGACGATGCAGAGTGTGAGGAAGAAGAAATTGATGAAACCTGTGAACATGAGTACGGT - 3120
 - E D D A E C E E E E I D E T C E H E Y G
 - R T M Q S V R K K L M K P V N M S T V
 - G R C R V * G R R N * * N L * T * V R Y
 3121 - ACAGAGGATGATTATCAAGGTCTCCCTCTGGAATTTGGTGCCTCAGCTGAAACAGTTCGA - 3180
 - T E D D Y Q G L P L E F G A S A E T V R
 - Q R M I I K V S L W N L V P Q L K Q F E
 - R G * L S R S P S G I W C L S * N S S S
 3181 - GTTGAGGAAGAAGAAGAGGAAGACTGGCTGGATGATACTACTGAGCAATCAGAGATTGAG - 3240
 - V E E E E E D W L D D T T E Q S E I E
 - L R K K K R K T G W M I L L S N Q R L S
 - * G R R R G R L A G * Y Y * A I R D * A
 3241 - CCAGAACCAGAACCTACACCTGAAGAACCAGTTAATCAGTTTACTGGTTATTTAAAACCT - 3300
 - P E P E P T P E E P V N Q F T G Y L K L
 - Q N Q N L H L K N Q L I S L L V I * N L
 - R T R T Y T * R T S * S V Y W L F K T Y
 3301 - ACTGACAATGTTGCCATTAAATGTGTTGACATCGTTAAGGAGGCACAAAGTGCTAATCCT - 3360
 - T D N V A I K C V D I V K E A Q S A N P
 - L T M L P L N V L T S L R R H K V L I L
 - * Q C C H * M C * H R * G G T K C * S Y

FIG. 11 Con't

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3361 - ATGGTGATTGTAAATGCTGCTAACATACACCTGAAACATGGTGGTGGTGTAGCAGGTGCA - 3420
      - M V I V N A A N I H L K H G G G V A G A
      - W * L * M L L T Y T * N M V V V * Q V H
      - G D C K C C * H T P E T W W W C S R C T
3421 - CTCAACAAGGCAACCAATGGTGCCATGCAAAAGGAGAGTGATGATTACATTAAGCTAAAT - 3480
      - L N K A T N G A M Q K E S D D Y I K L N
      - S T R Q P M V P C K R R V M I T L S * M
      - Q Q G N Q W C H A K G E * * L H * A K W
3481 - GGCCCTCTTACAGTAGGAGGGTCTTGTGTTTCTGGACATAATCTTGCTAAGAAGTGT - 3540
      - G P L T V G G S C L L S G H N L A K K C
      - A L L Q * E G L V C F L D I I L L R S V
      - P S Y S R R V L F A F W T * S C * E V S
3541 - CTGCATGTTGTTGGACCTAACCTAAATGCAGGTGAGGACATCCAGCTTCTTAAGGCAGCA - 3600
      - L H V V G P N L N A G E D I Q L L K A A
      - C M L L D L T * M Q V R T S S F L R Q H
      - A C C W T * P K C R * G H P A S * G S I
3601 - TATGAAAATTTCAATTCACAGGACATCTTACTTGCACCATTGTTGTCAGCAGGCATATTT - 3660
      - Y E N F N S Q D I L L A P L L S A G I F
      - M K I S I H R T S Y L H H C C Q Q A Y L
      - * K F Q F T G H L T C T I V V S R H I W
3661 - GGTGCTAAACCACTTCAGTCTTTACAAGTGTGCGTGACGAGGTTTCGTACACAGGTTTAT - 3720
      - G A K P L Q S L Q V C V Q T V R T Q V Y
      - V L N H F S L Y K C A C R R F V H R F I
      - C * T T S V F T S V R A D G S Y T G L Y
3721 - ATTGCACTCAATGACAAAGCTCTTTATGAGCAGGTTGTCATGGATTATCTTGATAACCTG - 3780
      - I A V N D K A L Y E Q V V M D Y L D N L
      - L Q S M T K L F M S R L S W I I L I T *
      - C S Q * Q S S L * A G C H G L S * * P E
3781 - AAGCCTAGAGTGAAGCACCTAAACAAGAGGAGCCACCAACACAGAAGATTCCAAAACCT - 3840
      - K P R V E A P K Q E E P P N T E D S K T
      - S L E W K H L N K R S H Q T Q K I P K L
      - A * S G S T * T R G A T K H R R F Q N *
3841 - GAGGAGAAATCTGTGCTACAGAAGCCTGTGATGTGAAGCCAAAATTAAGGCCTGCATT - 3900
      - E E K S V V Q K P V D V K P K I K A C I
      - R R N L S Y R S L S M * S Q K L R P A L
      - G E I C R T E A C R C E A K N * G L H *
3901 - GATGAGGTTACCACAACACTGGAAGAACTAAGTTTCTTACCAATAAGTTACTCTTGTTT - 3960
      - D E V T T T L E E T K F L T N K L L F
      - M R L P Q H W K K L S F L P I S Y S C L
      - * G Y H N T G R N * V S Y Q * V T L V C
3961 - GCTGATATCAATGGTAAGCTTTACCATGATTCTCAGAACATGCTTAGAGGTGAAGATATG - 4020
      - A D I N G K L Y H D S Q N M L R G E D M
      - L I S M V S F T M I L R T C L E V K I C
      - * Y Q W * A L P * F S E H A * R * R Y V
4021 - TCTTTCTTTGAGAAGGATGCACCTTACATGGTAGGTGATGTTATCACTAGTGGTGATATC - 4080
      - S F L E K D A P Y M V G D V I T S G D I
      - L S L R R M H L T W * V M L S L V V I S
      - F P * E G C T L H G R * C Y H * W * Y H
4081 - ACTTGTGTTGTAATACCCTCCAAAAGGCTGGTGGCACTACTGAGATGCTCTCAAGAGCT - 4140
      - T C V V I P S K K A G G T T E M L S R A
      - L V L * Y P P K R L V A L L R C S Q E L
      - L C C N T L Q K G W W H Y * D A L K S F
4141 - TTGAAGAAAGTGCCAGTTGATGAGTATATAACCACGTACCCTGGACAAGGATGTGCTGGT - 4200
      - L K K V P V D E Y I T T Y P G Q G C A G
      - * R K C Q L M S I * P R T L D K D V L V
      - E E S A S * * V Y N H V P W T R M C W L

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FIG. 11 Con't

4201 - TATACACTTGAGGAAGCTAAGACTGCTCTTAAGAAATGCAAATCTGCATTTTATGTACTA - 4260
 - Y T L E E A K T A L K K C K S A F Y V L
 - I H L R K L R L L L R N A N L H F M Y Y
 - Y T * G S * D C S * E M Q I C I L C T T
 4261 - CCTTCAGAAGCACCTAATGCTAAGGAAGAGATTCTAGGAAGTATCCTGGAATTTGAGA - 4320
 - P S E A P N A K E E I L G T V S W N L R
 - L Q K H L M L R K R F * E L Y P G I * E
 - F R S T * C * G R D S R N C I L E F E R
 4321 - GAAATGCTTGCTCATGCTGAAGAGACAAGAAAATTAATGCCTATATGCATGGATGTTAGA - 4380
 - E M L A H A E E T R K L M P I C M D V R
 - K C L L M L K R Q E N * C L Y A W M L E
 - N A C S C * R D K K I N A Y M H G C * S
 4381 - GCCATAATGGCAACCATCCAACGTAAGTATAAAGGAATTAAAATTCAAGAGGGCATCGTT - 4440
 - A I M A T I Q R K Y K G I K I Q E G I V
 - P * W Q P S N V S I K E L K F K R A S L
 - H N G N H P T * V * R N * N S R G H R *
 4441 - GACTATGGTGTCCGATTCTTCTTTTATACTAGTAAAGAGCCTGTAGCTTCTATTATTACG - 4500
 - D Y G V R F F F Y T S K E P V A S I I T
 - T M V S D S S F I L V K S L * L L L L R
 - L W C P I L L L Y * * R A C S F Y Y Y E
 4501 - AAGCTGAAGTCTCTAAATGAGCCGCTTGTACAAATGCCAATTGGTTATGTGACACATGGT - 4560
 - K L N S L N E P L V T M P I G Y V T H G
 - S * T L * M S R L S Q C Q L V M * H M V
 - A E L S K * A A C H N A N W L C D T W F
 4561 - TTTAATCTTGAAGAGGCTGCGCGCTGTATGCGTTCTCTTAAAGCTCCTGCCGTAGTGTCA - 4620
 - F N L E E A A R C M R S L K A P A V V S
 - L I L K R L R A V C V L L K L L P * C Q
 - * S * R G C A L Y A F S * S S C R S V S
 4621 - GTATCATCACCAGATGCTGTTACTACATATAATGGATACCTCACTTCGTCATCAAAGACA - 4680
 - V S S P D A V T T Y N G Y L T S S S K T
 - Y H H Q M L L L H I M D T S L R H Q R H
 - I I T R C C Y Y I * W I P H F V I K D I
 4681 - TCTGAGGAGCACTTTGTAGAAACAGTTTCTTTGGCTGGCTCTTACAGAGATTGGTCCTAT - 4740
 - S E E H F V E T V S L A G S Y R D W S Y
 - L R S T L * K Q F L W L A L T E I G P I
 - * G A L C R N S F F G W L L Q R L V L F
 4741 - TCAGGACAGCGTACAGAGTTAGGTGTTGAATTTCTTAAGCGTGGTGACAAAATTGTGTAC - 4800
 - S G Q R T E L G V E F L K R G D K I V Y
 - Q D S V Q S * V L N F L S V V T K L C T
 - R T A Y R V R C * I S * A W * Q N C V P
 4801 - CAACTCTGGAGAGCCCCGTCGAGTTTCATCTTGACGGTGAGGTTCTTCACTTGACAAA - 4860
 - H T L E S P V E F H L D G E V L S L D K
 - T L W R A P S S F I L T V R F F H L T N
 - H S G E P R R V S S * R * G S F T * Q T
 4861 - CTAAAGAGTCTCTTATCCCTGCGGGAGGTTAAGACTATAAAAGTGTTTCACTGTGGAC - 4920
 - L K S L L S L R E V K T I K V F T T V D
 - * R V S Y P C G R L R L * K C S Q L W T
 - K E S L I P A G G * D Y K S V H N C G Q
 4921 - AACACTAATCTCCACACACAGCTTGTGGATATGTCTATGACATATGGACAGCAGTTTGGT - 4980
 - N T N L H T Q L V D M S M T Y G Q Q F G
 - T L I S T H S L W I C L * H M D S S L V
 - H * S P H T A C G Y V Y D I W T A V W S
 4981 - CCAACATACTTGATGGTGTCTGATGTTACAAAATTAACCTCATGTAAATCATGAGGGT - 5040
 - P T Y L D G A D V T K I K P H V N H E G
 - Q H T W M V L M L Q K L N L M * I M R V
 - N I L G W C * C Y K N * T S C K S * G *

FIG. 11 Con't

5041 - AAGACTTTCTTTGTACTACCTAGTGATGACACACTACGTAGTGAAGCTTTTCGAGTACTAC - 5100
 - K T F F V L P S D D T L R S E A F E Y Y
 - R L S L Y Y L V M T H Y V V K L S S T T
 - D F L C T T * * * H T T * * S F R V L P
 5101 - CATACTCTTGATGAGAGTTTTCTTGGTAGGTACATGTCTGCTTTAAACCACACAAAGAAA - 5160
 - H T L D E S F L G R Y M S A L N H T K K
 - I L L M R V F L V G T C L L * T T Q R N
 - Y S * * E F S W * V H V C F K P H K E M
 5161 - TGGAAATTTCTCAAGTTGGTGGTTAACTTCAATTAAATGGGCTGATAACAATTGTTAT - 5220
 - W K F P Q V G G L T S I K W A D N N C Y
 - G N F L K L V V * L Q L N G L I T I V I
 - E I S S S W W F N F N * M G * * Q L L F
 5221 - TTGTCTAGTGTTTTATTAGCACTTCAACAGCTTGAAGTCAAATTCAATGCACCAGCACTT - 5280
 - L S S V L L A L Q Q L E V K F N A P A L
 - C L V F Y * H F N S L K S N S M H Q H F
 - V * C F I S T S T A * S Q I Q C T S T S
 5281 - CAAGAGGCTTATTATAGAGCCCGTGCTGGTGATGCTGCTAACTTTTGTGCACTCATACTC - 5340
 - Q E A Y Y R A R A G D A A N F C A L I L
 - K R L I I E P V L V M L L T F V H S Y S
 - R G L L * S P C W * C C * L L C T H T R
 5341 - GCTTACAGTAATAAACTGTTGGCGAGCTTGGTGATGTGAGAGAACTATGACCCATCTT - 5400
 - A Y S N K T V G E L G D V R E T M T H L
 - L T V I K L L A S L V M S E K L * P I F
 - L Q * * N C W R A W * C Q R N Y D P S S
 5401 - CTACAGCATGCTAATTTGGAATCTGCAAAGCGAGTTCTTAATGTGGTGTGTAAACATTGT - 5460
 - L Q H A N L E S A K R V L N V V C K H C
 - Y S M L I W N L Q S E F L M W C V N I V
 - T A C * F G I C K A S S * C G V * T L W
 5461 - GGTCAGAAAACACTACTACCTTAACGGGTGTAGAAGCTGTGATGTATATGGGTACTCTATCT - 5520
 - G Q K T T T L T G V E A V M Y M G T L S
 - V R K L L P * R V * K L * C I W V L Y L
 - S E N Y Y L N G C R S C D V Y G Y S I L
 5521 - TATGATAATCTTAAGACAGGTGTTTCCATTCCATGTGTGTGTGGTCGTGATGCTACACAA - 5580
 - Y D N L K T G V S I P C V C G R D A T Q
 - M I I L R Q V F P F H V C V V V M L H N
 - * * S * D R C F H S M C V W S * C Y T I
 5581 - TATCTAGTACAACAAGAGTCTTCTTTTGTATGATGTCTGCACCACCTGCTGAGTATAAA - 5640
 - Y L V Q Q E S S F V M M S A P A E Y K
 - I * Y N K S L L L L * C L H H L L S I N
 - S S T T R V F F C Y D V C T T C * V * I
 5641 - TTACAGCAAGGTACATTCTTATGTGCGAATGAGTACACTGGTAACTATCAGTGTGGTCAT - 5700
 - L Q Q G T F L C A N E Y T G N Y Q C G H
 - Y S K V H S Y V R M S T L V T I S V V I
 - T A R Y I L M C E * V H W * L S V W S L
 5701 - TACACTCATATAACTGCTAAGGAGACCCTCTATCGTATTGACGGAGCTCACCTTACAAAG - 5760
 - Y T H I T A K E T L Y R I D G A H L T K
 - T L I * L L R R P S I V L T E L T L Q R
 - H S Y N C * G D P L S Y * R S S P Y K D
 5761 - ATGTCAGAGTACAAAGGACAGTGACTGATGTTTTCTACAAGGAAACATCTTACACTACA - 5820
 - M S E Y K G P V T D V F Y K E T S Y T T
 - C Q S T K D Q * L M F S T R K H L T L Q
 - V R V Q R T S D * C F L Q G N I L H Y N
 5821 - ACCATCAAGCCTGTGTCGTATAAACTCGATGGAGTTACTTACACAGAGATTGAACCAAAA - 5880
 - T I K P V S Y K L D G V T Y T E I E P K
 - P S S L C R I N S M E L L T Q R L N Q N
 - H Q A C V V * T R W S Y L H R D * T K I

FIG. 11 Con't

5881 - TTGGATGGGTATTATAAAAAAGGATAATGCTTACTATACAGAGCAGCCTATAGACCTTGTA - 5940
 - L D G Y Y K K D N A Y Y T E Q P I D L V
 - W M G I I K R I M L T I Q S S L * T L Y
 - G W V L * K G * C L L Y R A A Y R P C T
 5941 - CCAACTCAACCATTACCAAATGCGAGTTTTGATAATTTCAAACCTCACATGTTCTAACACA - 6000
 - P T Q P L P N A S F D N F K L T C S N T
 - Q L N H Y Q M R V L I I S N S H V L T Q
 - N S T I T K C E F * * F Q T H M F * H K
 6001 - AAATTTGCTGATGATTTAAATCAAATGACAGGCTTCACAAAGCCAGCTTCACGAGAGCTA - 6060
 - K F A D D L N Q M T G F T K P A S R E L
 - N L L M I * I K * Q A S Q L H E S Y
 - I C * * F K S N D R L H K A S F T R A I
 6061 - TCTGTCACATTCTTCCCAGACTTGAATGGCGATGTAGTGGCTATTGACTATAGACACTAT - 6120
 - S V T F F P D L N G D V V A I D Y R H Y
 - L S H S S Q T * M A M * W L L T I D T I
 - C H I L P R L E W R C S G Y * L * T L F
 6121 - TCAGCGAGTTTCAAGAAAGGTGCTAAATTACTGCATAAGCCAATTGTTTGGCACATTAAC - 6180
 - S A S F K K G A K L L H K P I V W H I N
 - Q R V S R K V L N Y C I S Q L F G T L T
 - S E F Q E R C * I T A * A N C L A H * P
 6181 - CAGGCTACAACCAAGACAACGTTCAAACCAAACTTGGTGTGTACGTTGTCTTTGGAGT - 6240
 - Q A T T K T T F K P N T W C L R C L W S
 - R L Q P R Q R S N Q T L G V Y V V F G V
 - G Y N Q D N V Q T K H L V F T L S L E Y
 6241 - ACAAAGCCAGTAGATACTTCAAATTCATTGAAGTTCTGGCAGTAGAAGACACACAAGGA - 6300
 - T K P V D T S N S F E V L A V E D T Q G
 - Q S Q * I L Q I H L K F W Q * K T H K E
 - K A S R Y F K F I * S S G S R R H T R N
 6301 - ATGGACAATCTTGCTTGTGAAAGTCAACAACCCACCTCTGAAGAAGTAGTGGAAAATCCT - 6360
 - M D N L A C E S Q Q P T S E E V V E N P
 - W T I L L V K V N N P P L K K * W K I L
 - G Q S C L * K S T T H L * R S S G K S Y
 6361 - ACCATACAGAAGGAAGTCATAGAGTGTGACGTGAAAACCTACCGAAGTTGTAGGCAATGTC - 6420
 - T I Q K E V I E C D V K T T E V V G N V
 - P Y R R K S * S V T * K L P K L * A M S
 - H T E G S H R V * R E N Y R S C R Q C H
 6421 - ATACTTAAACCATCAGATGAAGGTGTTAAAGTAACACAAGAGTTAGGTCATGAGGATCTT - 6480
 - I L K P S D E G V K V T Q E L G H E D L
 - Y L N H Q M K V L K * H K S * V M R I L
 - T * T I R * R C * S N T R V R S * G S Y
 6481 - ATGGCTGCTTATGTGGAACACAAAGCATTACCATTAAAGAAACCTAATGAGCTTTCACTA - 6540
 - M A A Y V E N T S I T I K K P N E L S L
 - W L L M W K T Q A L P L R N L M S F H *
 - G C L C G K H K H Y H * E T * * A F T S
 6541 - GCCTTAGGTTTTAAAAACAATTGCCACTCATGGTATTGCTGCAATTAATAGTGTTCCTTGG - 6600
 - A L G L K T I A T H G I A A I N S V P W
 - P * V * K Q L P L M V L L Q L I V F L G
 - L R F K N N C H S W Y C C N * * C S L E
 6601 - AGTAAATTTTGGCTTATGTCAAACCATCTTAGGACAAGCAGCAATTACAACATCAAAT - 6660
 - S K I L A Y V K P F L G Q A A I T T S N
 - V K F W L M S N H S * D K Q Q L Q H Q I
 - * N F G L C Q T I L R T S S N Y N I K L
 6661 - TGCGCTAAGAGATTAGCACACGTTGTGTTTAAACAATTATATGCCTTATGTGTTTACATTA - 6720
 - C A K R L A Q R V F N N Y M P Y V F T L
 - A L R D * H N V C L T I I C L M C L H Y
 - R * E I S T T C V * Q L Y A L C V Y I I

FIG. 11 Con't

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6721 - TTGTTCCAATTGTGTACTTTTACTAAAAGTACCAATTCTAGAATTAGAGCTTCACTACCT - 6780
- L F Q L C T F T K S T N S R I R A S L P
- C S N C V L L L K V P I L E L E L H Y L
- V P I V Y F Y * K Y Q F * N * S F T T Y
6781 - ACAACTATTGCTAAAAATAGTGTTAAGAGTGTTGCTAAATTATGTTTGGATGCCGGCATT - 6840
- T T I A K N S V K S V A K L C L D A G I
- Q L L L K I V L R V L L N Y V W M P A L
- N Y C * K * C * E C C * I M F G C R H *
6841 - AATTATGTGAAGTCACCCAAATTTTCTAAATTGTTCACAATCGCTATGTGGCTATTGTTG - 6900
- N Y V K S P K F S K L F T I A M W L L L
- I M * S H P N F L N C S Q S L C G Y C C
- L C E V T Q I F * I V H N R Y V A I V V
6901 - TTAAGTATTTGCTTAGGTTCTCTAATCTGTGTAAGTCTGCTTTTGGTGTACTCTTATCT - 6960
- L S I C L G S L I C V T A A F G V L L S
- * V F A * V L * S V * L L L L V Y S Y L
- K Y L L R F S N L C N C C F W C T L I *
6961 - AATTTTGGTGCTCCTTCTTATTGTAATGGCGTTAGAGAATTGTATCTTAATTCGTCTAAC - 7020
- N F G A P S Y C N G V R E L Y L N S S N
- I L V L L L I V M A L E N C I L I R L T
- F W C S F L L * W R * R I V S * F V * R
7021 - GTTACTACTATGGATTTCTGTGAAGGTTCTTTTCTTGTCAGCATTGTGTTAAGTGGATTA - 7080
- V T T M D F C E G S F P C S I C L S G L
- L L L W I S V K V L F L A A F V * V D *
- Y Y Y G F L * R F F S L Q H L F K W I R
7081 - GACTCCCTTGATTCTTATCCAGCTCTTGAAACCATTGAGGTGACGATTTTCATCGTACAAG - 7140
- D S L D S Y P A L E T I Q V T I S S Y K
- T P L I L I Q L L K P F R * R F H R T S
- L P * F L S S S * N H S G D D F I V Q A
7141 - CTAGACTTGACAATTTTAGGTCTGGCCGCTGAGTGGGTTTTGGCATATATGTTGTTTACA - 7200
- L D L T I L G L A E W V L A Y M L F T
- * T * Q F * V W P L S G F W H I C C S Q
- R L D N F R S G R * V G F G I Y V V H K
7201 - AAATCTTTTTATTATTAGGTCTTTTCAGCTATAATGCAGGTGTTCTTTGGCTATTTTGCT - 7260
- K F F Y L L G L S A I M Q V F F G Y F A
- N S F I Y * V F Q L * C R C S L A I L L
- I L L F I R S F S Y N A G V L W L F C *
7261 - AGTCATTTTCATCAGCAATTCTTGCTCATGTGGTTTATCATTAGTATTGTACAAATGGCA - 7320
- S H F I S N S W L M W F I I S I V Q M A
- V I S S A I L G S C G L S L V L Y K W H
- S F H Q Q F L A H V V Y H * Y C T N G T
7321 - CCCGTTTCTGCAATGGTTAGGATGTACATCTTCTTTGCTTCTTTCTACTACATATGGAAG - 7380
- P V S A M V R M Y I F F A S F Y Y I W K
- P F L Q W L G C T S S L L L S T T Y G R
- R F C N G * D V H L L C F F L L H M E E
7381 - AGCTATGTTTCATATCATGGATGGTTGCACCTCTTCGACTTGCATGATGTGCTATAAGCGC - 7440
- S Y V H I M D G C T S S T C M M C Y K R
- A M F I S W M V A P L R L A * C A I S A
- L C S Y H G W L H L F D L H D V L * A Q
7441 - AATCGTGCCACACGCGTTGAGTGTACAATGTTAATGGCATGAAGAGATCTTTCTAT - 7500
- N R A T R V E C T T I V N G M K R S F Y
- I V P H A L S V Q L L L M A * R D L S M
- S C H T R * V Y N Y C * W H E E I F L C
7501 - GTCTATGCAAATGGAGGCCGTGGCTTCTGCAAGACTACAATTGGAATTGTCTCAATTGT - 7560
- V Y A N G G R G F C K T H N W N C L N C
- S M Q M E A V A S A R L T I G I V S I V
- L C K W R P W L L Q D S Q L E L S Q L *

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FIG. 11 Con't

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7561 - GACACATTTTGCACCTGGTAGTACATTTCATTAGTGATGAAGTTGCTCGTGATTTGTCACCTC - 7620
- D T F C T G S T F I S D E V A R D L S L
- T H F A L V V H S L V M K L L V I C H S
- H I L H W * Y I H * * * S C S * F V T P
7621 - CAGTTTAAAAGACCAATCAACCCTACTGACCAGTCATCGTATATTGTTGATAGTGTGCT - 7680
- Q F K R P I N P T D Q S S Y I V D S V A
- S L K D Q S T L L T S H R I L L I V L L
- V * K T N Q P Y * P V I V Y C * * C C C
7681 - GTGAAAAATGGCGCGCTTCACCTCTACTTTGACAAGGCTGGTCAAAAAGACCTATGAGAGA - 7740
- V K N G A L H L Y F D K A G Q K T Y E R
- * K M A R F T S T L T R L V K R P M R D
- E K W R A S P L L * Q G W S K D L * E T
7741 - CATCCGCTCTCCCATTTTGTCAATTTAGACAATTTGAGAGCTAACAACACTAAAGGTTCA - 7800
- H P L S H F V N L D N L R A N N T K G S
- I R S P I L S I * T I * E L T T L K V H
- S A L P F C Q F R Q F E S * Q H * R F T
7801 - CTGCCTATTAATGTCATAGTTTTTGATGGCAAGTCCAAATGCGACGAGTCTGCTTCTAAG - 7860
- L P I N V I V F D G K S K C D E S A S K
- C L L M S * F L M A S P N A T S L L L S
- A Y * C H S F * W Q V Q M R R V C F * V
7861 - TCTGCTTCTGTGTACTACAGTCAGCTGATGTGCCAACCTATTCTGTTGCTTGACCAAGCT - 7920
- S A S V Y Y S Q L M C Q P I L L L D Q A
- L L L C T T V S * C A N L F C C L T K L
- C F C V L Q S A D V P T Y S V A * P S S
7921 - CTTGTATCAAACGTTGGAGATAGTACTGAAGTTCCGTTAAGATGTTTGATGCTTATGTC - 7980
- L V S N V G D S T E V S V K M F D A Y V
- L Y Q T L E I V L K F P L R C L M L M S
- C I K R W R * Y * S F R * D V * C L C R
7981 - GACACCTTTTCAGCAACTTTTAGTGTTCCTATGGAAAACTTAAGGCACTTGTGCTACA - 8040
- D T F S A T F S V P M E K L K A L V A T
- T P F Q Q L L V F L W K N L R H L L L Q
- H L F S N F * C S Y G K T * G T C C Y S
8041 - GCTCACAGCGAGTTAGCAAAGGGTGTAGCTTTAGATGGTGTCTTTCTACATTTCGTGTCA - 8100
- A H S E L A K G V A L D G V L S T F V S
- L T A S * Q R V * L * M V S F L H S C Q
- S Q R V S K G C S F R W C P F Y I R V S
8101 - GCTGCCCGACAAGGTGTTGTTGATACCGATGTTGACACAAAGGATGTTATTGAATGTCTC - 8160
- A A R Q G V V D T D V D T K D V I E C L
- L P D K V L L I P M L T Q R M L L N V S
- C P T R C C * Y R C * H K G C Y * M S Q
8161 - AAACCTTTCACATCACTCTGACTTAGAAGTGACAGGTGACAGTTGTAACAATTTTCATGCTC - 8220
- K L S H H S D L E V T G D S C N N F M L
- N F H I T L T * K * Q V T V V T I S C S
- T F T S L * L R S D R * Q L * Q F H A H
8221 - ACCTATAATAAGGTTGAAAACATGACGCCCAGAGATCTTGGCGCATGTATTGACTGTAAT - 8280
- T Y N K V E N M T P R D L G A C I D C N
- P I I R L K T * R P E I L A H V L T V M
- L * * G * K H D A Q R S W R M Y * L * C
8281 - GCAAGGCATATCAATGCCCAAGTAGCAAAAAGTCACAATGTTTCACTCATCTGGAATGTA - 8340
- A R H I N A Q V A K S H N V S L I W N V
- Q G I S M P K * Q K V T M F H S S G M *
- K A Y Q C P S S K K S Q C F T H L E C K
8341 - AAAGACTACATGTCTTTATCTGAACAGCTGCGTAAACAAATTCGTAAGTCTGCAAGAAG - 8400
- K D Y M S L S E Q L R K Q I R T A A K K
- K T T C L Y L N S C V N K F V L L P R R
- R L H V F I * T A A * T N S Y C C Q E E

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FIG. 11 Con't

8401 - AACAAACATACCTTTTACACTAACTTGTGCTACAACCTAGACAGGTTGTCAATGTCATAACT - 8460
 - N N I P F T L T C A T T R Q V V N V I T
 - T T Y L L H * L V L Q L D R L S M S * L
 - Q H T F Y T N L C Y N * T G C Q C H N Y
 8461 - ACTAAAATCTCACTCAAGGGTGGTAAGATTGTTAGTACTTGTTTTAACTTATGCTTAAG - 8520
 - T K I S L K G G K I V S T C F K L M L K
 - L K S H S R V V R L L V L V L N L C L R
 - * N L T Q G W * D C * Y L F * T Y A * G
 8521 - GCCACATTATTGTGCGTTCTTGCTGCATTGGTTTGTATATCGTTATGCCAGTACATACA - 8580
 - A T L L C V L A A L V C Y I V M P V H T
 - P H Y C A F L L H W F V I S L C Q Y I H
 - H I I V R S C C I G L L Y R Y A S T Y I
 8581 - TTGTCAATCCATGATGGTTACACAAATGAAATCATTGGTTACAAAGCCATTACAGGATGGT - 8640
 - L S I H D G Y T N E I I G Y K A I Q D G
 - C Q S M M V T Q M K S L V T K P F R M V
 - V N P * W L H K * N H W L Q S H S G W C
 8641 - GTCACCTCGTGACATCATTTCTACTGATGATTGTTTGTCAAATAAACATGCTGGTTTTGAC - 8700
 - V T R D I I S T D D C F A N K H A G F D
 - S L V T S F L L M I V L Q I N M L V L T
 - H S * H H F Y * * L F C K * T C W F * R
 8701 - GCATGGTTTAGCCAGCGTGGTGGTTACAAAAATGACAAAAGCTGCCCTGTAGTAGCT - 8760
 - A W F S Q R G G S Y K N D K S C P V V A
 - H G L A S V V V H T K M T K A A L * * L
 - M V * P A W W F I Q K * Q K L P C S S C
 8761 - GCTATCATTACAAGAGAGATTGGTTTCATAGTGCCTGGCTTACCGGGTACTGTGCTGAGA - 8820
 - A I I T R E I G F I V P G L P G T V L R
 - L S L Q E R L V S * C L A Y R V L C * E
 - Y H Y K R D W F H S A W L T G Y C A E S
 8821 - GCAATCAATGGTGACTTCTTGCATTTTCTACCTCGTGTTTTTAGTGCTGTTGGCAACATT - 8880
 - A I N G D F L H F L P R V F S A V G N I
 - Q S M V T S C I F Y L V F L V L L A T F
 - N Q W * L L A F S T S C F * C C W Q H L
 8881 - TGCTACACACCTTCCAAACTCATTGAGTATAGTGATTTTGCTACCTCTGCTTGCCTTCTT - 8940
 - C Y T P S K L I E Y S D F A T S A C V L
 - A T H L P N S L S I V I L L P L L A F L
 - L H T F Q T H * V * * F C Y L C L R S C
 8941 - GCTGCTGAGTGTAACAATTTTAAAGGATGCTATGGGCAAACCTGTGCCATATTGTTATGAC - 9000
 - A A E C T I F K D A M G K P V P Y C Y D
 - L L S V Q F L R M L W A N L C H I V M T
 - C * S V Y N F * G C Y G Q T C A I L L * H
 9001 - ACTAATTTGCTAGAGGGTCTATTCTTATAGTGAGCTTCGTCCAGACACTCGTTATGTG - 9060
 - T N L L E G S I S Y S E L R P D T R Y V
 - L I C * R V L F L I V S F V Q T L V M C
 - * F A R G F Y F L * * A S S R H S L C A
 9061 - CTTATGGATGGTTCCATCATACAGTTTCCTAACACTTACCTGGAGGGTTCTGTTAGAGTA - 9120
 - L M D G S I I Q F P N T Y L E G S V R V
 - L W M V P S Y S F L T L T W R V L L E *
 - Y G W F H H T V S * H L P G G F C * S S
 9121 - GTAACAACTTTTGATGCTGAGTACTGTAGACATGGTACATGCGAAAGGTCAGAAGTAGGT - 9180
 - V T T F D A E Y C R H G T C E R S E V G
 - * Q L L M L S T V D M V H A K G Q K * V
 - N N F * C * V L * T W Y M R K V R S R Y
 9181 - ATTTGCCTATCTACCAGTGGTAGATGGGTTCTTAATAATGAGCATTACAGAGCTCTATCA - 9240
 - I C L S T S G R W V L N N E H Y R A L S
 - F A Y L P V V D G F L I M S I T E L Y Q
 - L P I Y Q W * M G S * * * A L Q S S I R

FIG. 11 Con't

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9241 - GGAGTTTTCTGTGGTGTGATGCGATGAATCTCATAGCTAACATCTTTACTCCTCTTGTG - 9300
- G V F C G V D A M N L I A N I F T P L V
- E F S V V L M R * I S * L T S L L L L C
- S F L W C * C D E S H S * H L Y S S C A
9301 - CAACCTGTGGGTGCTTTAGATGTGTCTGCTTCAGTAGTGGCTGGTGGTATTATTGCCATA - 9360
- Q P V G A L D V S A S V V A G G I I A I
- N L W V L * M C L L Q * W L V V L L P Y
- T C G C F R C V C F S S G W W Y Y C H I
9361 - TTGGTGA CTGTGCTGCCTACTACTTTATGAAATTCAGACGTGTTTTTGGTGAGTACAAC - 9420
- L V T C A A Y Y F M K F R R V F G E Y N
- W * L V L P T T L * N S D V F L V S T T
- G D L C C L L L Y E I Q T C F W * V Q P
9421 - CATGTTGTTGCTGCTAATGCAC TTTTGT TTTTGTGATGTCTTTCACTATACTCTGTCTGGTA - 9480
- H V V A A N A L L F L M S F T I L C L V
- M L L L L M H F C F * C L S L Y S V W Y
- C C C C * C T F V F D V F H Y T L S G T
9481 - CCAGCTTACAGCTTTCTGCCGGGAGTCTACTCAGTCTTTTACTTGTACTTGACATTCTAT - 9540
- P A Y S F L P G V Y S V F Y L Y L T F Y
- Q L T A F C R E S T Q S F T C T * H S I
- S L Q L S A G S L L S L L L V L D I L F
9541 - TTCACCAATGATGTTTCATTCTTGGCTCACCTTCAATGGTTTGCCATGTTTTCTCCTATT - 9600
- F T N D V S F L A H L Q W F A M F S P I
- S P M M F H S W L T F N G L P C F L L L
- H Q * C F I L G S P S M V C H V F S Y C
9601 - GTGCCTTTTTGGATAACAGCAATCTATGTATTCTGTATTTCTCTGAAGCACTGCCATTGG - 9660
- V P F W I T A I Y V F C I S L K H C H W
- C L F G * Q Q S M Y S V F L * S T A I G
- A F L D N S N L C I L Y F S E A L P L V
9661 - TTCTTTAACA ACTATCTTAGGAAAAGAGTCATGTTTAAATGGAGTTACATTTAGTACCTTC - 9720
- F F N N Y L R K R V M F N G V T F S T F
- S L T T I L G K E S C L M E L H L V P S
- L * Q L S * E K S H V * W S Y I * Y L R
9721 - GAGGAGGCTGCTTTGTGTACCTTTTGTCTCAACAAGGAAATGTACCTAAAATTGCGTAGC - 9780
- E E A A L C T F L L N K E M Y L K L R S
- R R L L C V P F C S T R K C T * N C V A
- G G C F V Y L F A Q Q G N V P K I A * R
9781 - GAGACACTGTTGCCACTTACACAGTATAACAGGTATCTTGCTCTATATAACAAGTACAAG - 9840
- E T L L P L T Q Y N R Y L A L Y N K Y K
- R H C C H L H S I T G I L L Y I T S T S
- D T V A T Y T V * Q V S C S I * Q V Q V
9841 - TATTTCACTGGAGCCTTAGATACTACCAGCTATCGTGAAGCAGCTTGCTGCCACTTAGCA - 9900
- Y F S G A L D T T S Y R E A A C C H L A
- I S V E P * I L P A I V K Q L A A T * Q
- F Q W S L R Y Y Q L S * S S L L P L S K
9901 - AAGGCTCTAAATGACTTTAGCAACTCAGGTGCTGATGTTCTCTACCAACCACCACAGACA - 9960
- K A L N D F S N S G A D V L Y Q P P Q T
- R L * M T L A T Q V L M F S T N H R H
- G S K * L * Q L R C * C S L P T T T D I
9961 - TCAATCACTTCTGCTGTTCTGCAGAGTGGTTTTAGGAAAATGGCATTCCCGTCAGGCAAA - 10020
- S I T S A V L Q S G F R K M A F P S G K
- Q S L L L F C R V V L G K W H S R Q A K
- N H F C C S A E W F * E N G I P V R Q S
10021 - GTTGAAGGGTGCATGGTACAAGTAACCTGTGGA ACTACA ACTCTTAATGGATTGTGGTTG - 10080
- V E G C M V Q V T C G T T T L N G L W L
- L K G A W Y K * P V E L Q L L M D C G W
- * R V H G T S N L W N Y N S * W I V V G

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FIG. 11 Con't

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10081 - GATGACACAGTATACTGTCCAAGACATGTCATTTGCACAGCAGAAGACATGCTTAATCCT - 10140
- D D T V Y C P R H V I C T A E D M L N P
- M T Q Y T V Q D M S F A Q Q K T C L I L
- * H S I L S K T C H L H S R R H A * S *
10141 - AACTATGAAGATCTGCTCATTGCGAAATCCAACCATAGCTTTCTTGTTGAGGCTGGCAAT - 10200
- N Y E D L L I R K S N H S F L V Q A G N
- T M K I C S F A N P T I A F L F R L A M
- L * R S A H S Q I Q P * L S C S G W Q C
10201 - GTTCAACTTCGTGTTATTGGCCATTCTATGCAAAATTGTCTGCTTAGGCTTAAAGTTGAT - 10260
- V Q L R V I G H S M Q N C L L R L K V D
- F N F V L L A I L C K I V C L G L K L I
- S T S C Y W P F Y A K L S A * A * S * Y
10261 - ACTTCTAACCCTAAGACACCCAAGTATAAAATTTGTCCGTATCCAACCTGGTCAAACATTT - 10320
- T S N P K T P K Y K F V R I Q P G Q T F
- L L T L R H P S I N L S V S N L V K H F
- F * P * D T Q V * I C P Y P T W S N I F
10321 - TCAGTTCTAGCATGCTACAATGGTTCCACATCTGGTGTTTATCAGTGTGCCATGAGACCT - 10380
- S V L A C Y N G S P S G V Y Q C A M R P
- Q F * H A T M V H H L V F I S V P * D L
- S S S M L Q W F T I W C L S V C H E T *
10381 - AATCATACCATTAAAGGTTCTTTCCTTAATGGATCATGTGGTAGTGTTGGTTTTAACATT - 10440
- N H T I K G S F L N G S C G S V G F N I
- I I P L K V L S L M D H V V V L V L T L
- S Y H * R F F P * W I M W * C W F * H *
10441 - GATTATGATTGCGTGTCTTTCTGCTATATGCATCATATGGAGCTTCCAACAGGAGTACAC - 10500
- D Y D C V S F C Y M H H M E L P T G V H
- I M I A C L S A I C I I W S F Q Q E Y T
- L * L R V F L L Y A S Y G A S N R S T R
10501 - GCTGGTACTGACTTAGAAGGTAAATTCTATGGTCCATTTGTTGACAGACAAACTGCACAG - 10560
- A G T D L E G K F Y G P F V D R Q T A Q
- L V L T * K V N S M V H L L T D K L H R
- W Y * L R R * I L W S I C * Q T N C T G
10561 - GCTGCAGGTACAGACACAACCATAACATTAAATGTTTTGGCATGGCTGTATGCTGCTGTT - 10620
- A A G T D T T I T L N V L A W L Y A A V
- L Q V Q T Q P * H * M F W H G C M L L L
- C R Y R H N H N I K C F G M A V C C C Y
10621 - ATCAATGGTGATAGGTGGTTTCTTAATAGATTCCACCTACTTTGAATGACTTTAACCTT - 10680
- I N G D R W F L N R F T T T L N D F N L
- S M V I G G F L I D S P L L * M T L T L
- Q W * * V V S * * I H H Y F E * L * P C
10681 - GTGGCAATGAAGTACAACCTATGAACCTTTGACACAAGATCATGTTGACATATTGGGACCT - 10740
- V A M K Y N Y E P L T Q D H V D I L G P
- W Q * S T T M N L * H K I M L T Y W D L
- G N E V Q L * T F D T R S C * H I G T S
10741 - CTTTCTGCTCAAACAGGAATTGCCGTCTTAGATATGTGTGCTGCTTTGAAAGAGCTGCTG - 10800
- L S A Q T G I A V L D M C A A L K E L L
- F L L K Q E L P S * I C V L L * K S C C
- F C S N R N C R L R Y V C C F E R A A A
10801 - CAGAATGGTATGAATGGTCGTACTATCCTTGGTAGCACTATTTTAGAAGATGAGTTTACA - 10860
- Q N G M N G R T I L G S T I L E D E F T
- R M V * M V V L S L V A L F * K M S L H
- E W Y E W S Y Y P W * H Y F R R * V Y T
10861 - CCATTTGATGTTGTTAGACAATGCTCTGGTGTTACCTTCCAAGGTAAGTTCAAGAAAATT - 10920
- P F D V V R Q C S G V T F Q G K F K K I
- H L M L L D N A L V L P S K V S S R K L
- I * C C * T M L W C Y L P R * V Q E N C

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FIG. 11 Con't

10921 - GTTAAGGGCACTCATCATTGGATGCTTTTAACTTTCTTGACATCACTATTGATTCTTGT - 10980
 - V K G T H H W M L L T F L T S L L I L V
 - L R A L I I G C F * L S * H H Y * F L F
 - * G H S S L D A F N F L D I T I D S C S
 10981 - CAAAGTACACAGTGGTCACTGTTTTCTTTGTTTACGAGAATGCTTTCTTGCCATTTACT - 11040
 - Q S T Q W S L F F F V Y E N A F L P F T
 - K V H S G H C F S L F T R M L S C H L L
 - K Y T V V T V F L C L R E C F L A I Y S
 11041 - CTTGGTATTATGGCAATTGCTGCATGTGCTATGCTGCTTGTTAAGCATAAGCACGCATTC - 11100
 - L G I M A I A A C A M L L V K H K H A F
 - L V L W Q L L H V L C C L L S I S T H S
 - W Y Y G N C C M C Y A A C * A * A R I L
 11101 - TTGTGCTTGTCTTCTGTTACCTTCTCTTGCAACAGTTGCTTACTTTAATATGGTCTACATG - 11160
 - L C L F L L P S L A T V A Y F N M V Y M
 - C A C F C Y L L L Q Q L L T L I W S T C
 - V L V S V T F S C N S C L L * Y G L H A
 11161 - CCTGCTAGCTGGGTGATGCGTATCATGACATGGCTTGAATTGGCTGACACTAGCTTGTCT - 11220
 - P A S W V M R I M T W L E L A D T S L S
 - L L A G * C V S * H G L N W L T L A C L
 - C * L G D A Y H D M A * I G * H * L V W
 11221 - GGTTATAGGCTTAAGGATTGTGTTATGTATGCTTCAGCTTTAGTTTTGCTTATTCTCATG - 11280
 - G Y R L K D C V M Y A S A L V L L I L M
 - V I G L R I V L C M L Q L * F C L F S *
 - L * A * G L C Y V C F S F S F A Y S H D
 11281 - ACAGCTCGCACTGTTTATGATGATGCTGCTAGACGTGTTTGGACACTGATGAATGTCATT - 11340
 - T A R T V Y D D A A R R V W T L M N V I
 - Q L A L F M M M L L D V F G H * * M S L
 - S S H C L * * C C * T C L D T D E C H Y
 11341 - ACACTTGTTTACAAAGTCTACTATGGTAATGCTTTAGATCAAGCTATTTCCATGTGGGCC - 11400
 - T L V Y K V Y Y G N A L D Q A I S M W A
 - H L F T K S T M V M L * I K L F P C G P
 - T C L Q S L L W * C F R S S Y F H V G L
 11401 - TTAGTTATTTCTGTAACCTCTAACTATTCTGGTGTGCTTACGACTATCATGTTTTTAGCT - 11460
 - L V I S V T S N Y S G V V T T I M F L A
 - * L F L * P L T I L V S L R L S C F * L
 - S Y F C N L * L F W C R Y D Y H V F S *
 11461 - AGAGCTATAGTGTGTTGTGTGTTGAGTATTACCCATTGTTATTTACTGGCAACACC - 11520
 - R A I V F V C V E Y Y P L L F I T G N T
 - E L * C L C V L S I T H C Y L L L A T P
 - S Y S V C V C * V L P I V I Y Y W Q H L
 11521 - TTACAGTGATCATGCTTGTTTATTGTTTCTTAGGCTATTGTTGCTGCTGCTACTTTGGC - 11580
 - L Q C I M L V Y C F L G Y C C C C Y F G
 - Y S V S C L F I V S * A I V A A A T L A
 - T V Y H A C L L F L R L L L L L L W P
 11581 - CTTTTCTGTTTACTCAACCGTTACTTCAGGCTTACTCTTGGTGTTTATGACTACTTGGTC - 11640
 - L F C L L N R Y F R L T L G V Y D Y L V
 - F S V Y S T V T S G L L V F M T T W S
 - F L F T Q P L L Q A Y S W C L * L L G L
 11641 - TCTACACAAGAATTTAGGTATATGAACTCCAGGGGCTTTTGCCTCCTAAGAGTAGTATT - 11700
 - S T Q E F R Y M N S Q G L L P P K S S I
 - L H K N L G I * T P R G F C L L R V V L
 - Y T R I * V Y E L P G A F A S * E * Y *
 11701 - GATGCTTTCAAGCTTAACATTAAGTTGTTGGGTATTGGAGGTAAACCATGTATCAAGGTT - 11760
 - D A F K L N I K L L G I G G K P C I K V
 - M L S S L T L S C W V L E V N H V S R L
 - C F Q A * H * V V G Y W R * T M Y Q G C

FIG. 11 Con't


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11761 - GCTACTGTACAGTCTAAAATGTCTGACGTAAAGTGCACATCTGTGGTACTGCTCTCGGTT - 11820
- A T V Q S K M S D V K C T S V V L L S V
- L L Y S L K C L T * S A H L W Y C S R F
- Y C T V * N V * R K V H I C G T A L G S
11821 - CTTCAACAACCTTAGAGTAGAGTCATCTTCTAAATTGTGGGCACAATGTGTACAACCTCCAC - 11880
- L Q Q L R V E S S S K L W A Q C V Q L H
- F N N L E * S H L L N C G H N V Y N S T
- S T T * S R V I F * I V G T M C T T P Q
11881 - AATGATATTCTTCTTGCAAAAGACACAACCTGAAGCTTTCGAGAAGATGGTTTCTCTTTTG - 11940
- N D I L L A K D T T E A F E K M V S L L
- M I F F L Q K T Q L K L S R R W F L F C
- * Y S S C K R H N * S F R E D G F S F V
11941 - TCTGTTTTGCTATCCATGCAGGGTGCTGTAGACATTAATAGGTTGTGCGAGGAAATGCTC - 12000
- S V L L S M Q G A V D I N R L C E E M L
- L F C Y P C R V L * T L I G C A R K C S
- C F A I H A G C C R H * * V V R G N A R
12001 - GATAACCGTGCTACTCTTCAGGCTATTGCTTCAGAATTTAGTTCTTTACCATCATATGCC - 12060
- D N R A T L Q A I A S E F S S L P S Y A
- I T V L L F R L L L Q N L V L Y H H M P
- * P C Y S S G Y C F R I * F F T I I C R
12061 - GCTTATGCCACTGCCCAGGAGCCTATGAGCAGGCTGTAGCTAATGGTGATTCTGAAGTC - 12120
- A Y A T A Q E A Y E Q A V A N G D S E V
- L M P L P R R P M S R L * L M V I L K S
- L C H C P G G L * A G C S * W * F * S R
12121 - GTTCTCAAAAAGTTAAAGAAATCTTTGAATGTGGCTAAATCTGAGTTTGACCGTGATGCT - 12180
- V L K K L K K S L N V A K S E F D R D A
- F S K S * R N L * M W L N L S L T V M L
- S Q K V K E I F E C G * I * V * P * C C
12181 - GCCATGCAACGCAAGTTGGAAGATGGCAGATCAGGCTATGACCCAAATGTACAAACAG - 12240
- A M Q R K L E K M A D Q A M T Q M Y K Q
- P C N A S W K R W Q I R L * P K C T N R
- H A T Q V G K D G R S G Y D P N V Q T G
12241 - GCAAGATCTGAGGACAAGAGGGCAAAAGTAAGTGTGCTATGCAAACAATGCTCTTCACT - 12300
- A R S E D K R A K V T S A M Q T M L F T
- Q D L R T R G Q K * L V L C K Q C S S L
- K I * G Q E G K S N * C Y A N N A L H Y
12301 - ATGCTTAGGAAGCTTGATAATGATGCACTTAACAACATTATCAACAATGCGCGTGATGGT - 12360
- M L R K L D N D A L N N I I N N A R D G
- C L G S L I M M H L T T L S T M R V M V
- A * E A * * C T * Q H Y Q Q C A * W L
12361 - TGTGTTCCACTCAACATCATACCATTGACTACAGCAGCCAAACTCATGGTTGTTGTCCCT - 12420
- C V P L N I I P L T T A A K L M V V V P
- V F H S T S Y H * L Q Q P N S W L L S L
- C S T Q H H T I D Y S S Q T H G C C P *
12421 - GATTATGGTACCTACAAGAACTTGTGATGGTAACACCTTTACATATGCATCTGCACTC - 12480
- D Y G T Y K N T C D G N T F T Y A S A L
- I M V P T R T L V M V T P L H M H L H S
- L W Y L Q E H L * W * H L Y I C I C T L
12481 - TGGGAAATCCAGCAAGTTGTTGATGCGGATAGCAAGATTGTTCAACTTAGTGAAATTAAC - 12540
- W E I Q Q V V D A D S K I V Q L S E I N
- G K S S K L L M R I A R L F N L V K L T
- G N P A S C * C G * Q D C S T * * N * H
12541 - ATGGACAATTCACCAAAATTGGCTTGGCCTCTTATTGTTACAGCTCTAAGAGCCAACTCA - 12600
- M D N S P N L A W P L I V T A L R A N S
- W T I H Q I W L G L L L L Q L * E P T Q
- G Q F T K F G L A S Y C Y S S K S Q L S

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FIG. 11 Con't

12601 - GCTGTTAAACTACAGAATAATGAACTGAGTCCAGTAGCACTACGACAGATGTCCTGTGCG - 12660
 - A V K L Q N N E L S P V A L R Q M S C A
 - L L N Y R I M N * V Q * H Y D R C P V R
 - C * T T E * * T E S S S T T T D V L C G
 12661 - GCTGGTACCACACAAACAGCTTGTACTGATGACAATGCACTGCCTACTATAACAATTG - 12720
 - A G T T Q T A C T D D N A L A Y Y N N S
 - L V P H K Q L V L M T M H L P T I T I R
 - W Y H T N S L Y * * Q C T C L L * Q F E
 12721 - AAGGGAGGTAGGTTTGTGCTGGCATTACTATCAGACCACCAAGATCTCAAATGGGCTAGA - 12780
 - K G G R F V L A L L S D H Q D L K W A R
 - R E V G L C W H Y Y Q T T K I S N G L D
 - G R * V C A G I T I R P P R S Q M G * I
 12781 - TTCCCTAAGAGTGATGGTACAGGTACAATTTACACAGAACTGGAACCACCTTGTAGGTTT - 12840
 - F P K S D G T G T I Y T E L E P P C R F
 - S L R V M V Q V Q F T Q N W N H L V G L
 - P * E * W Y R Y N L H R T G T T L * V C
 12841 - GTTACAGACACACCAAAGGGCCTAAAGTGAAATACTTGTACTTCATCAAAGGCTTAAAC - 12900
 - V T D T P K G P K V K Y L Y F I K G L N
 - L Q T H Q K G L K * N T C T S S K A * T
 - Y R H T K R A * S E I L V L H Q R L K Q
 12901 - AACCTAAATAGAGGTATGGTGTGCTGGGCAGTTTAGCTGCTACAGTACGTCTTCAGGCTGGA - 12960
 - N L N R G M V L G S L A A T V R L Q A G
 - T * I E V W C W A V * L L Q Y V F R L E
 - P K * R Y G A G Q F S C Y S T S S G W K
 12961 - AATGCTACAGAAGTACCTGCCAATTCAACTGTGCTTTCCTTCTGTGCTTTTGCAGTAGAC - 13020
 - N A T E V P A N S T V L S F C A F A V D
 - M L Q K Y L P I Q L C F P S V L L Q * T
 - C Y R S T C Q F N C A F L L C F C S R P
 13021 - CCTGCTAAAGCATATAAGGATTACCTAGCAAGTGGAGGACAACCAATCACCACTGTGTG - 13080
 - P A K A Y K D Y L A S G G Q P I T N C V
 - L L K H I R I T * Q V E D N Q S P T V *
 - C * S I * G L P S K W R T T N H Q L C E
 13081 - AAGATGTTGTGTACACACACTGGTACAGGACAGGCAATTACTGTAACACCAGAAGCTAAC - 13140
 - K M L C T H T G T G Q A I T V T P E A N
 - R C C V H T L V Q D R Q L L * H Q K L T
 - D V V Y T H W Y R T G N Y C N T R S * H
 13141 - ATGGACCAAGAGTCCTTTGGTGGTGCTTCATGTTGTCTGTATTGTAGATGCCACATTGAC - 13200
 - M D Q E S F G G A S C C L Y C R C H I D
 - W T K S P L V V L H V V C I V D A T L T
 - G P R V L W W C F M L S V L * M P H * P
 13201 - CATCCAAATCCTAAAGGATTCTGTGACTTGAAAGGTAAGTACGTCCAAATACCTACCACT - 13260
 - H P N P K G F C D L K G K Y V Q I P T T
 - I Q I L K D S V T * K V S T S K Y L P L
 - S K S * R I L * L E R * V R P N T Y H L
 13261 - TGTGCTAATGACCCAGTGGGTTTTACACTTAGAAACACAGTCTGTACCGTCTGCGGAATG - 13320
 - C A N D P V G F T L R N T V C T V C G M
 - V L M T Q W V L H L E T Q S V P S A E C
 - C * * P S G F Y T * K H S L Y R L R N V
 13321 - TGGAAAGGTTATGGCTGTAGTTGTGACCAACTCCGCGAACCCTTGATGCAGTCTGCGGAT - 13380
 - W K G Y G C S C D Q L R E P L M Q S A D
 - G K V M A V V V T N S A N P * C S L R M
 - E R L W L * L * P T P R T L D A V C G C
 13381 - GCATCAACGTTTTTAAACGGGTTTTCGGGTGTAAGTGCAGCCCGTCTTACACCGTGCGGCA - 13440
 - A S T F L N G F A V * V Q P V L H R A A
 - H Q R F * T G L R C K C S P S Y T V R H
 - I N V F K R V C G V S A A R L T P C G T

FIG. 11 Con't

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13441 - CAGGCACTAGTACTGATGTCGCTCTACAGGGCTTTTGATATTTACAACGAAAAAGTGCTG - 13500
- Q A L V L M S S T G L L I F T T K K V L
- R H * Y * C R L Q G F * Y L Q R K K C W
- G T S T D V V Y R A F D I Y N E K S A G
13501 - GTTTTGCAAAGTTCCTAAAACTAATTGCTGTCGCTTCCAGGAGAAGGATGAGGAAGGCA - 13560
- V L Q S S * K L I A V A S R R R M R K A
- F C K V P K N * L L S L P G E G * G R Q
- F A K F L K T N C C R F Q E K D E E G N
13561 - ATTTATTAGACTCTTACTTTGTAGTTAAGAGGCATACTATGTCTAACTACCAACATGAAG - 13620
- I Y * T L T L * L R G I L C L T T N M K
- F I R L L L C S * E A Y Y V * L P T * R
- L L D S Y F V V K R H T M S N Y Q H E E
13621 - AGACTATTTATAACTTGGTTAAAGATTGTCCAGCGGTTGCTGTCCATGACTTTTTTCAAGT - 13680
- R L F I T W L K I V Q R L L S M T F S S
- D Y L * L G * R L S S G C C P * L F Q V
- T I Y N L V K D C P A V A V H D F F K F
13681 - TTAGAGTAGATGGTGACATGGTACCACATATATCACGTCAGCGTCTAACTAAATACACAA - 13740
- L E * M V T W Y H I Y H V S V * L N T Q
- * S R W * H G T T Y I T S A S N * I H N
- R V D G D M V P H I S R Q R L T K Y T M
13741 - TGGCTGATTTAGTCTATGCTCTACGTCATTTTGATGAGGGTAATTGTGATACATTAAAAAG - 13800
- W L I * S M L Y V I L M R V I V I H * K
- G * F S L C S T S F * * G * L * Y I K R
- A D L V Y A L R H F D E G N C D T L K E
13801 - AAATACTCGTCACATACAATTGCTGTGATGATGATTATTTCAATAAGAAGGATTGGTATG - 13860
- K Y S S H T I A V M M I I S I R R I G M
- N T R H I Q L L * * * L F Q * E G L V *
- I L V T Y N C C D D D Y F N K K D W Y D
13861 - ACTTCGTAGAGAATCCTGACATCTTACGCGTATATGCTAAGTTAGGTGAGCGGTGACGCC - 13920
- T S * R I L T S Y A Y M L T * V S V Y A
- L R R E S * H L T R I C * L R * A C T P
- F V E N P D I L R V Y A N L G E R V R Q
13921 - AATCATTATTAAAGACTGTACAATTCTGCGATGCTATGCGTGATGCAGGCATTGTAGGCG - 13980
- N H Y * R L Y N S A M L C V M Q A L * A
- I I I K D C T I L R C Y A * C R H C R R
- S L L K T V Q F C D A M R D A G I V G V
13981 - TACTGACATTAGATAATCAGGATCTTAATGGGAAGTGGTACGATTTTCGGTGATTTTCGTAC - 14040
- Y * H * I I R I L M G T G T I S V I S Y
- T D I R * S G S * W E L V R F R * F R T
- L T L D N Q D L N G N W Y D F G D F V Q
14041 - AAGTAGCACCAGGCTGCGGAGTTCCTATTGTGGATTCAATTACTCATTGCTGATGCCCA - 14100
- K * H Q A A E F L L W I H I T H C * C P
- S S T R L R S S Y C G F I L L I A D A H
- V A P G C G V P I V D S Y Y S L L M P I
14101 - TCCTCACTTTGACTAGGGCATTGGCTGCTGAGTCCCATATGGATGCTGATCTCGCAAAC - 14160
- S S L * L G H W L L S P I W M L I S Q N
- P H F D * G I G C * V P Y G C * S R K T
- L T L T R A L A E S H M D A D L A K P
14161 - CACTTATTAAGTGGGATTTGCTGAAATATGATTTTACGGAAGAGAGACTTTGTCTCTTCG - 14220
- H L L S G I C * N M I L R K R D F V S S
- T Y * V G F A E I * F Y G R E T L S L R
- L I K W D L L K Y D F T E E R L C L F D
14221 - ACCGTTATTTTAAATATTGGGACCAGACATACCATCCCAATTGTATTAACTGTTTGGATG - 14280
- T V I L N I G T R H T I P I V L T V W M
- P L F * I L G P D I P S Q L Y * L F G *
- R Y F K Y W D Q T Y H P N C I N C L D D

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FIG. 11 Con't

14281 - ATAGGTGTATCCTTCATTGTGCAAACTTTAATGTGTTATTTTCTACTGTGTTTCCACCTA - 14340
 - I G V S F I V Q T L M C Y F L L C F H L
 - * V Y P S L C K L * C V I F Y C V S T Y
 - R C I L H C A N F N V L F S T V F P P T
 14341 - CAAGTTTTGGACCACTAGTAAGAAAAATATTTGTAGATGGTGTTCCTTTTGTGTTTCAA - 14400
 - Q V L D H * * E K Y L * M V F L L L F Q
 - K F W T T S K K N I C R W C S F C C F N
 - S F G P L V R K I F V D G V P F V V S T
 14401 - CTGGATACCATTTTCGTGAGTTAGGAGTCGTACATAATCAGGATGTAACTTACATAGCT - 14460
 - L D T I F V S * E S Y I I R M * T Y I A
 - W I P F S * V R S R T * S G C K L T * L
 - G Y H F R E L G V V H N Q D V N L H S S
 14461 - CGCGTCTCAGTTTTCAAGGAACTTTGTAGTGTATGCTGCTGATCCAGCTATGCATGCAGCTT - 14520
 - R V S V S R N F * C M L L I Q L C M Q L
 - A S Q F Q G T F S V C C * S S Y A C S F
 - R L S F K E L L V Y A A D P A M H A A S
 14521 - CTGGCAATTTATTGCTAGATAAACGCACTACATGCTTTTCAGTAGCTGCACTAACAAACA - 14580
 - L A I Y C * I N A L H A F Q * L H * Q T
 - W Q F I A R * T H Y M L F S S C T N K Q
 - G N L L L D K R T T C F S V A A L T N N
 14581 - ATGTTGCTTTTCAAACGTCAAACCCGGTAATTTTAATAAAGACTTTTATGACTTTGCTG - 14640
 - M L L F K L S N P V I L I K T F M T L L
 - C C F S N C Q T R * F * * R L L * L C C
 - V A F Q T V K P G N F N K D F Y D F A V
 14641 - TGTCTAAAGGTTTCTTTAAGGAAGGAAGTTCTGTTGAACTAAAACACTTCTTCTTTGCTC - 14700
 - C L K V S L R K E V L L N * N T S S L L
 - V * R F L * G R K F C * T K T L L L C S
 - S K G F F K E G S S V E L K H F F C A Q
 14701 - AGGATGGCAACGCTGCTATCAGTGATTATGACTATTATCGTTATAATCTGCCAACAATGT - 14760
 - R M A T L L S V I M T I I V I I C Q Q C
 - G W Q R C Y Q * L * L L S L * S A N N V
 - D G N A A I S D Y D Y Y R Y N L P T M C
 14761 - GTGATATCAGACAACCTCTATTTCGTAGTTGAAGTTGTTGATAAATACTTTGATTGTTACG - 14820
 - V I S D N S Y S * L K L L I N T L I V T
 - * Y Q T T P I R S * S C * * I L * L L R
 - D I R Q L L F V V E V V D K Y F D C Y D
 14821 - ATGGTGGCTGTATTAATGCCAACCAAGTAATCGTTAACAATCTGGATAAATCAGCTGGTT - 14880
 - M V A V L M P T K * S L T I W I N Q L V
 - W W L Y * C Q P S N R * Q S G * I S W F
 - G G C I N A N Q V I V N N L D K S A G F
 14881 - TCCCATTTAATAAATGGGGTAAGGCTAGACTTTATTATGACTCAATGAGTTATGAGGATC - 14940
 - S H L I N G V R L D F I M T Q * V M R I
 - P I * * M G * G * T L L * L N E L * G S
 - P F N K W G K A R L Y Y D S M S Y E D Q
 14941 - AAGATGCACTTTTCGCGTATACTAAGCGTAATGTCATCCCTACTATAACTCAAATGAATC - 15000
 - K M H F S R I L S V M S S L L * L K * I
 - R C T F R V Y * A * C H P Y Y N S N E S
 - D A L F A Y T K R N V I P T I T Q M N L
 15001 - TTAAGTATGCCATTAGTGCAAAGAATAGAGCTCGCACCGTAGCTGGTGTCTCTATCTGTA - 15060
 - L S M P L V Q R I E L A P * L V S L S V
 - * V C H * C K E * S S H R S W C L Y L *
 - K Y A I S A K N R A R T V A G V S I C S
 15061 - GTACTATGACAAATAGACAGTTTCATCAGAAATTATTGAAGTCAATAGCCGCCACTAGAG - 15120
 - V L * Q I D S F I R N Y * S Q * P P L E
 - Y Y D K * T V S S E I I E V N S R H * R
 - T M T N R Q F H Q K L L K S I A A T R G

FIG. 11 Con't

15121 - GAGCTACTGTGGTAATTGGAACAAGCAAGTTTTACGGTGGCTGGCATAATATGTTAAAAA - 15180
 - E L L W * L E Q A S F T V A G I I C * K
 - S Y C G N W N K Q V L R W L A * Y V K N
 - A T V V I G T S K F Y G G W H N M L K T
 15181 - CTGTTTACAGTGATGTAGAAACTCCACACCTTATGGGTTGGGATTATCCAAAATGTGACA - 15240
 - L F T V M * K L H T L W V G I I Q N V T
 - C L Q * C R N S T P Y G L G L S K M * Q
 - V Y S D V E T P H L M G W D Y P K C D R
 15241 - GAGCCATGCCTAACATGCTTAGGATAATGGCCTCTCTTGTCTTGCTCGCAAACATAACA - 15300
 - E P C L T C L G * W P L L F L L A N I T
 - S H A * H A * D N G L S C S C S Q T * H
 - A M P N M L R I M A S L V L A R K H N T
 15301 - CTTGCTGTAACCTTATCACACCGTTTCTACAGGTTAGCTAACGAGTGTGCGCAAGTATTAA - 15360
 - L A V T Y H T V S T G * L T S V R K Y *
 - L L * L I T P F L Q V S * R V C A S I K
 - C C N L S H R F Y R L A N E C A Q V L S
 15361 - GTGAGATGGTCATGTGTGGCGGCTCACTATATGTTAAACCAGGTGGAACATCATCCGGTG - 15420
 - V R W S C V A A H Y M L N Q V E H H P V
 - * D G H V W R L T I C * T R W N I I R *
 - E M V M C G G S L Y V K P G G T S S G D
 15421 - ATGCTACAACCTGCTTATGCTAATAGTGTCTTTAACATTTGTCAAGCTGTTACAGCCAATG - 15480
 - M L Q L L M L I V S L T F V K L L Q P M
 - C Y N C L C * * C L * H L S S C Y S Q C
 - A T T A Y A N S V F N I C Q A V T A N V
 15481 - TAAATGCACTTCTTTCAACTGATGGTAATAAGATAGCTGACAAGTATGTCCGCAATCTAC - 15540
 - * M H F F Q L M V I R * L T S M S A I Y
 - K C T S F N * W * * D S * Q V C P Q S T
 - N A L L S T D G N K I A D K Y V R N L Q
 15541 - AACACAGGCTCTATGAGTGTCTCTATAGAAATAGGGATGTTGATCATGAATTCGTGGATG - 15600
 - N T G S M S V S I E I G M L I M N S W M
 - T Q A L * V S L * K * G C * S * I R G *
 - H R L Y E C L Y R N R D V D H E F V D E
 15601 - AGTTTTACGCTTACCTGCGTAAACATTTCTCCATGATGATTCTTTCTGATGATGCCGTTG - 15660
 - S F T L T C V N I S P * * F F L M M P L
 - V L R L P A * T F L H D D S F * * C R C
 - F Y A Y L R K H F S M M I L S D D A V V
 15661 - TGTGCTATAACAGTAACCTATGCGGCTCAAGGTTTAGTAGCTAGCATTAAAGAACTTTAAGG - 15720
 - C A I T V T M R L K V * * L A L R T L R
 - V L * Q * L C G S R F S S * H * E L * G
 - C Y N S N Y A A Q G L V A S I K N F K A
 15721 - CAGTTCTTTATTATCAAAATAATGTGTTTCATGTCTGAGGCAAAATGTTGGACTGAGACTG - 15780
 - Q F F I I K I M C S C L R Q N V G L R L
 - S S L L S K * C V H V * G K M L D * D *
 - V L Y Y Q N N V F M S E A K C W T E T D
 15781 - ACCTTACTAAAGGACCTCACGAATTTTGCTCACAGCATACAATGCTAGTTAAACAAGGAG - 15840
 - T L L K D L T N F A H S I Q C * L N K E
 - P Y * R T S R I L S T A Y N A S * T R R
 - L T K G P H E F C S Q H T M L V K Q G D
 15841 - ATGATTACGTGTACCTGCCTTACCCAGATCCATCAAGAATATTAGGCGCAGGCTGTTTTG - 15900
 - M I T C T C L T Q I H Q E Y * A Q A V L
 - * L R V P A L P R S I K N I R R R L F C
 - D Y V Y L P Y P D P S R I L G A G C F V
 15901 - TCGATGATATTGTCAAAACAGATGGTACACTTATGATTGAAAGGTTTCGTGTCACTGGCTA - 15960
 - S M I L S K Q M V H L * L K G S C H W L
 - R * Y C Q N R W Y T Y D * K V R V T G Y
 - D D I V K T D G T L M I E R F V S L A I

FIG. 11 Con't

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15961 - TTGATGCTTACCCACTTACAAAACATCCTAATCAGGAGTATGCTGATGTCTTTCACTTGT - 16020
      - L M L T H L Q N I L I R S M L M S F T C
      - * C L P T Y K T S * S G V C * C L S L V
      - D A Y P L T K H P N Q E Y A D V F H L Y
16021 - ATTTACAATACATTAGAAAGTTACATGATGAGCTTACTGGCCACATGTTGGACATGTATT - 16080
      - I Y N T L E S Y M M S L L A T C W T C I
      - F T I H * K V T * * A Y W P H V G H V F
      - L Q Y I R K L H D E L T G H M L D M Y S
16081 - CCGTAATGCTAACTAATGATAACACCTCACGGTACTGGGAACCTGAGTTTTATGAGGCTA - 16140
      - P * C * L M I T P H G T G N L S F M R L
      - R N A N * * * H L T V L G T * V L * G Y
      - V M L T N D N T S R Y W E P E F Y E A M
16141 - TGTACACACCACATACAGTCTTGCAGGCTGTAGGTGCTTGTGTATTGTGCAATTCACAGA - 16200
      - C T H H I Q S C R L * V L V Y C A I H R
      - V H T T Y S L A G C R C L C I V Q F T D
      - Y T P H T V L Q A V G A C V L C N S Q T
16201 - CTTCACTTCGTTGCGGTGCCTGTATTAGGAGACCATTCTATGTTGCAAGTGCTGCTATG - 16260
      - L H F V A V P V L G D H S Y V A S A A M
      - F T S L R C L Y * E T I P M L Q V L L *
      - S L R C G A C I R R P F L C C K C C Y D
16261 - ACCATGTCAATTTCAACATCACACAAATTAGTGTGTCTGTTAATCCCTATGTTTGCAATG - 16320
      - T M S F Q H H T N * C C L L I P M F A M
      - P C H F N I T Q I S V V C * S L C L Q C
      - H V I S T S H K L V L S V N P Y V C N A
16321 - CCCCAGGTTGTGATGTCACTGATGTGACACAACTGTATCTAGGAGGTATGAGCTATTATT - 16380
      - P Q V V M S L M * H N C I * E V * A I I
      - P R L * C H * C D T T V S R R Y E L L L
      - P G C D V T D V T Q L Y L G G M S Y Y C
16381 - GCAAGTCACATAAGCCTCCCATAGTTTTCCATTATGTGCTAATGGTCAGGTTTTTGTT - 16440
      - A S H I S L P L V F H Y V L M V R F L V
      - Q V T * A S H * F S I M C * W S G F W F
      - K S H K P P I S F P L C A N G Q V F G L
16441 - TATACAAAAACACATGTGTAGGCAGTGACAATGTCACTGACTTCAATGCGATAGCAACAT - 16500
      - Y T K T H V * A V T M S L T S M R * Q H
      - I Q K H M C R Q * Q C H * L Q C D S N M
      - Y K N T C V G S D N V T D F N A I A T C
16501 - GTGATTGGACTAATGCTGGCGATTACATACTTGCCAACTTGTACTGAGAGACTCAAGC - 16560
      - V I G L M L A I T Y L P T L V L R D S S
      - * L D * C W R L H T C Q H L Y * E T Q A
      - D W T N A G D Y I L A N T C T E R L K L
16561 - TTTTCGCAGCAGAAACGCTCAAAGCCACTGAGGAAACATTTAAGCTGTCATATGGTATTG - 16620
      - F S Q Q K R S K P L R K H L S C H M V L
      - F R S R N A Q S H * G N I * A V I W Y C
      - F A A E T L K A T E E T F K L S Y G I A
16621 - CCACTGTACGCGAAGTACTCTCTGACAGAGAATTGCATCTTTCATGGGAGGTTGGA AAC - 16680
      - P L Y A K Y S L T E N C I F H G R L E N
      - H C T R S T L * Q R I A S F M G W K T
      - T V R E V L S D R E L H L S W E V G K P
16681 - CTAGACCACATTGAACAGAACTATGTCTTTACTGGTTACCGTGTA ACTAAAAATAGTA - 16740
      - L D H H * T E T M S L L V T V * L K I V
      - * T T I E Q K L C L Y W L P C N * K * *
      - R P P L N R N Y V F T G Y R V T K N S K
16741 - AAGTACAGATTGGAGAGTACACCTTTGAAAAAGGTGACTATGGTGATGCTGTTGTGTACA - 16800
      - K Y R L E S T P L K K V T M V M L L C T
      - S T D W R V H L * K R * L W * C C C V Q
      - V Q I G E Y T F E K G D Y G D A V V Y R

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FIG. 11 Con't

16801 - GAGGTACTACGACATACAAGTTGAATGTTGGTGATTACTTTGTGTTGACATCTCACACTG - 16860
 - E V L R H T S * M L V I T L C * H L T L
 - R Y Y D I Q V E C W * L L C V D I S H C
 - G T T T Y K L N V G D Y F V L T S H T V
 16861 - TAATGCCACTTAGTGACCTACTCTAGTGCCACAAGAGCACTATGTGAGAATTACTGGCT - 16920
 - * C H L V H L L * C H K S T M * E L L A
 - N A T * C T Y S S A T R A L C E N Y W L
 - M P L S A P T L V P Q E H Y V R I T G L
 16921 - TGTACCCAACACTCAACATCTCAGATGAGTTTTCTAGCAATGTTGCAAATTATCAAAAGG - 16980
 - C T Q H S T S Q M S F L A M L Q I I K R
 - V P N T Q H L R * V F * Q C C K L S K G
 - Y P T L N I S D E F S S N V A N Y Q K V
 16981 - TCGGCATGCAAAAGTACTCTACACTCCAAGGACCACCTGGTACTGGTAAGAGTCATTTTG - 17040
 - S A C K S T L H S K D H L V L V R V I L
 - R H A K V L Y T P R T T W Y W * E S F C
 - G M Q K Y S T L Q G P P G T G K S H F A
 17041 - CCATCGGACTTGCTCTCTATTACCCATCTGCTCGCATAGTGTATACGGCATGCTCTCATG - 17100
 - P S D L L S I T H L L A * C I R H A L M
 - H R T C S L L P I C S H S V Y G M L S C
 - I G L A L Y Y P S A R I V Y T A C S H A
 17101 - CAGCTGTTGATGCCCTATGTGAAAAGGCATTAAAATATTTGCCCATAGATAAATGTAGTA - 17160
 - Q L L M P Y V K R H * N I C P * I N V V
 - S C * C P M * K G I K I F A H R * M * *
 - A V D A L C E K A L K Y L P I D K C S R
 17161 - GAATCATACCTGCGCGTGCGCGTAGAGTGTGATAAATTCAAAGTGAATTCAACAC - 17220
 - E S Y L R V R A * S V L I N S K * I Q H
 - N H T C A C A R R V F * * I Q S E F N T
 - I I P A R A R V E C F D K F K V N S T L
 17221 - TAGAACAGTATGTTTTCTGCACTGTAAATGCCAGAAACAAGTCTGACATTGTAG - 17280
 - * N S M F S A L * M H C Q K Q L L T L *
 - R T V C F L H C K C I A R N N C * H C S
 - E Q Y V F C T V N A L P E T T A D I V V
 17281 - TCTTTGATGAAATCTCTATGGCTACTAATTATGACTTGAGTGTGTCAATGCTAGACTTC - 17340
 - S L M K S L W L L I M T * V L S M L D F
 - L * * N L Y G Y * L * L E C C Q C * T S
 - F D E I S M A T N Y D L S V V N A R L R
 17341 - GTGCAAAACACTACGTCTATATTGGCGATCCTGCTCAATTACCAGCCCCCGCACATTGC - 17400
 - V Q N T T S I L A I L L N Y Q P P A H C
 - C K T L R L Y W R S C S I T S P P H I A
 - A K H Y V Y I G D P A Q L P A P R T L L
 17401 - TGAATAAAGGCACACTAGAACCAGAATATTTTAATTCAAGTGTGCAGACTTATGAAAACAA - 17460
 - * L K A H * N Q N I L I Q C A D L * K Q
 - D * R H T R T R I F * F S V Q T Y E N N
 - T K G T L E P E Y F N S V C R L M K T I
 17461 - TAGGTCCAGACATGTTCTTGGAAGTGTGCGCGTTGTCCTGCTGAAATTGTTGACACTG - 17520
 - * V Q T C S L E L V A V V L L K L L T L
 - R S R H V P W N L S P L S C * N C * H C
 - G P D M F L G T C R R C P A E I V D T V
 17521 - TGAGTGCTTTAGTTTATGACAATAAGCTAAAAGCACACAAGGATAAGTCAGCTCAATGCT - 17580
 - * V L * F M T I S * K H T R I S Q L N A
 - E C F S L * Q * A K S T Q G * V S S M L
 - S A L V Y D N K L K A H K D K S A Q C F
 17581 - TCAAAATGTTCTACAAAGGTGTTATTACACATGATGTTTCATCTGCAATCAACAGACCTC - 17640
 - S K C S T K V L L H M M F H L Q S T D L
 - Q N V L Q R C Y Y T * C F I C N Q Q T S
 - K M F Y K G V I T H D V S S A I N R P Q

FIG. 11 Con't

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17641 - AAATAGGCGTTGTAAGAGAATTTCTTACACGCAATCCTGCTTGGAGAAAAGCTGTTTTTA - 17700
- K * A L * E N F L H A I L L G E K L F L
- N R R C K R I S Y T Q S C L E K S C F Y
- I G V V R E F L T R N P A W R K A V F I
17701 - TCTCACCTTATAATTCACAGAACGCTGTAGCTTCAAAAATCTTAGGATTGCCTACGCAGA - 17760
- S H L I I H R T L * L Q K S * D C L R R
- L T L * F T E R C S F K N L R I A Y A D
- S P Y N S Q N A V A S K I L G L P T Q T
17761 - CTGTTGATTCATCACAGGGTTCTGAATATGACTATGTCATATTCACACAACTACTGAAA - 17820
- L L I H H R V L N M T M S Y S H K L L K
- C * F I T G F * I * L C H I H T N Y * N
- V D S S Q G S E Y D Y V I F T Q T T E T
17821 - CAGCACACTCTTGTAATGTCAACCGCTTCAATGTGGCTATCACAAGGGCAAAAATTGGCA - 17880
- Q H T L V M S T A S M W L S Q G Q K L A
- S T L L * C Q P L Q C G Y H K G K N W H
- A H S C N V N R F N V A I T R A K I G I
17881 - TTTTGTGCATAATGTCTGATAGAGATCTTTATGACAACTGCAATTTACAAGTCTAGAAA - 17940
- F C A * C L I E I F M T N C N L Q V * K
- F V H N V * * R S L * Q T A I Y K S R N
- L C I M S D R D L Y D K L Q F T S L E I
17941 - TACCACGTCGCAATGTGGCTACATTACAAGCAGAAAATGTAAGTGGACTTTTTTAAGGACT - 18000
- Y H V A M W L H Y K Q K M * L D F L R T
- T T S Q C G Y I T S R K C N W T F * G L
- P R R N V A T L Q A E N V T G L F K D C
18001 - GTAGTAAGATCATTACTGGTCTTCATCCTACACAGGCACCTACACACCTCAGCGTTGATA - 18060
- V V R S L L V F I L H R H L H T S A L I
- * * D H Y W S S S Y T G T Y T P Q R * Y
- S K I I T G L H P T Q A P T H L S V D I
18061 - TAAAATTCAAGACTGAAGGATTATGTGTTGACATACCAGGCATACCAAAGGACATGACCT - 18120
- * N S R L K D Y V L T Y Q A Y Q R T * P
- K I Q D * R I M C * H T R H T K G H D L
- K F K T E G L C V D I P G I P K D M T Y
18121 - ACCGTAGACTCATCTCTATGATGGGTTTCAAAATGAATTACCAAGTCAATGGTTACCCTA - 18180
- T V D S S L * W V S K * I T K S M V T L
- P * T H L Y D G F Q N E L P S Q W L P *
- R R L I S M M G F K M N Y Q V N G Y P N
18181 - ATATGTTTATCACCCGCGAAGAAGCTATTCGTACGTTTCGTGCGTGGATTGGCTTTGATG - 18240
- I C L S P A K K L F V T F V R G L A L M
- Y V Y H P R R S Y S S R S C V D W L * C
- M F I T R E E A I R H V R A W I G F D V
18241 - TAGAGGGCTGTCATGCAACTAGAGATGCTGTGGGTACTAACCTACCTCTCCAGCTAGGAT - 18300
- * R A V M Q L E M L W V L T Y L S S * D
- R G L S C N * R C C G Y * P T S P A R I
- E G C H A T R D A V G T N L P L Q L G F
18301 - TTTCTACAGGTGTTAACTTAGTAGCTGTACCGACTGGTTATGTTGACACTGAAAATAACA - 18360
- F L Q V L T * * L Y R L V M L T L K I T
- F Y R C * L S S C T D W L C * H * K * H
- S T G V N L V A V P T G Y V D T E N N T
18361 - CAGAATTCACCAGAGTTAATGCAAAACCTCCACCAGGTGACCAGTTTAAACATCTTATAC - 18420
- Q N S P E L M Q N L H Q V T S L N I L Y
- R I H Q S * C K T S T R * P V * T S Y T
- E F T R V N A K P P P G D Q F K H L I P
18421 - CACTCATGTATAAAGGCTTGCCCTGGAATGTAGTGCATTAAGATAGTACAAATGCTCA - 18480
- H S C I K A C P G M * C V L R * Y K C S
- T H V * R L A L E C S A Y * D S T N A Q
- L M Y K G L P W N V V R I K I V Q M L S

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FIG. 11 Con't

18481 - GTGATACACTGAAAGGATTGTCTAGACAGAGTCGTGTTTCGTCCTTTGGGCGCATGGCTTTG - 18540
 - V I H * K D C Q T E S C S S F G R M A L
 - * Y T E R I V R Q S R V R P L G A W L *
 - D T L K G L S D R V V F V L W A H G F E
 18541 - AGCTTACATCAATGAAGTACTTTGTCAAGATTGGACCTGAAAGAACGTGTTGTCTGTGTG - 18600
 - S L H Q * S T L S R L D L K E R V V C V
 - A Y I N E V L C Q D W T * K N V L S V *
 - L T S M K Y F V K I G P E R T C C L C D
 18601 - ACAAACGTGCAACTTGCTTTTCTACTTCATCAGATACTTATGCCTGCTGGAATCATTCTG - 18660
 - T N V Q L A F L L H Q I L M P A G I I L
 - Q T C N L L F Y F I R Y L C L L E S F C
 - K R A T C F S T S S D T Y A C W N H S V
 18661 - TGGGTTTTGACTATGTCTATAACCCATTTATGATTGATGTTTCAGCAGTGGGGCTTTACGG - 18720
 - W V L T M S I T H L * L M F S S G A L R
 - G F * L C L * P I Y D * C S A V G L Y G
 - G F D Y V Y N P F M I D V Q Q W G F T G
 18721 - GTAACCTTCAGAGTAACCATGACCAACATTGCCAGGTACATGGAAATGCACATGTGGCTA - 18780
 - V T F R V T M T N I A R Y M E M H M W L
 - * P S E * P * P T L P G T W K C T G *
 - N L Q S N H D Q H C Q V H G N A H V A S
 18781 - GTTGTGATGCTATCATGACTAGATGTTTAGCAGTCCATGAGTGCTTTGTAAAGCGCGTTG - 18840
 - V V M L S * L D V * Q S M S A L L S A L
 - L * C Y H D * M F S S P * V L C * A R *
 - C D A I M T R C L A V H E C F V K R V D
 18841 - ATTGGTCTGTTGAATACCTATTATAGGAGATGAAGTGAAGGTTAATTCTGCTTGCAGAA - 18900
 - I G L L N T L L * E M N * G L I L L A E
 - L V C * I P Y Y R R * T E G * F C L Q K
 - W S V E Y P I I G D E L R V N S A C R K
 18901 - AAGTACAACACATGGTTGTGAAGTCTGCATTGCTTGCTGATAAGTTTCCAGTTCCTTCATG - 18960
 - K Y N T W L * S L H C L L I S F Q F F M
 - S T T H G C E V C I A C * * V S S S S *
 - V Q H M V V K S A L L A D K F P V L H D
 18961 - ACATTGGAAATCCAAAGGCTATCAAGTGTGTGCCTCAGGCTGAAGTAGAATGGAAGTTCT - 19020
 - T L E I Q R L S S V C L R L K * N G S S
 - H W K S K G Y Q V C A S G * S R M E V L
 - I G N P K A I K C V P Q A E V E W K F Y
 19021 - ACGATGCTCAGCCATGTAGTGACAAAGCTTACAAAATAGAGGAACTCTTCTATTCTTATG - 19080
 - T M L S H V V T K L T K * R N S S I L M
 - R C S A M * * Q S L Q N R G T L L F L C
 - D A Q P C S D K A Y K I E E L F Y S Y A
 19081 - CTACACATCAGGATAAATTCATGATGGTGTGTTTGTGTTTGGAAATTGTAACGTTGATC - 19140
 - L H I T I N S L M V F V C F G I V T L I
 - Y T S R * I H * W C L F V L E L * R * S
 - T H H D K F T D G V C L F W N C N V D R
 19141 - GTTACCCAGCCAATGCAATTGTGTGTAGGTTTGACACAAGAGTCTTGTCAAACCTTGAAC - 19200
 - V T Q P M Q L C V G L T Q E S C Q T * T
 - L P S Q C N C V * V * H K S L V K L E L
 - Y P A N A I V C R F D T R V L S N L N L
 19201 - TACCAGGCTGTGATGGTGGTAGTTTGTATGTGAATAAGCATGCATTCCACACTCCAGCTT - 19260
 - Y Q A V M V V V C M * I S M H S T L Q L
 - T R L * W W * F V C E * A C I P H S S F
 - P G C D G G S L Y V N K H A F H T P A F
 19261 - TCGATAAAAGTGCATTTACTAATTTAAAGCAATTGCCTTTCTTTTACTATTCTGATAGTC - 19320
 - S I K V H L L I * S N C L S F T I L I V
 - R * K C I Y * F K A I A F L L L F * * S
 - D K S A F T N L K Q L P F F Y Y S D S P

FIG. 11 Con't

19321 - CTTGTGAGTCTCATGGCAAACAAGTAGTGTGCGATATTGATTATGTTCCACTCAAATCTG - 19380
 - L V S L M A N K * C R I L I M F H S N L
 - L * V S W Q T S S V G Y * L C S T Q I C
 - C E S H G K Q V V S D I D Y V P L K S A
 19381 - CTACGTGTATTACACGATGCAATTTAGGTGGTGTCTTTGCAGACACCATGCAAATGAGT - 19440
 - L R V L H D A I * V V L F A D T M Q M S
 - Y V Y Y T M Q F R W C C L Q T P C K * V
 - T C I T R C N L G G A V C R H H A N E Y
 19441 - ACCGACGACTTGGATGCATATAATATGATGATTTCTGCTGGATTTAGCCTATGGATTT - 19500
 - T D S T W M H I I * * F L L D L A Y G F
 - P T V L G C I * Y D D F C W I * P M D L
 - R Q Y L D A Y N M M I S A G F S L W I Y
 19501 - ACAAACAATTTGATACTTATAACCTGTGGAATACATTTACCAGGTTACAGAGTTTAGAAA - 19560
 - T N N L I L I T C G I H L P G Y R V * K
 - Q T I * Y L * P V E Y I Y Q V T E F R K
 - K Q F D T Y N L W N T F T R L Q S L E N
 19561 - ATGTGGCTTATAATGTTGTTAATAAAGGACACTTTGATGGACACGCCGCGGAAGCACCTG - 19620
 - M W L I M L L I K D T L M D T P A K H L
 - C G L * C C * * R T L * W T R R R S T C
 - V A Y N V V N K G H F D G H A G E A P V
 19621 - TTTCCATTAATAATGCTGTTTACACAAAGGTAGATGGTATTGATGTGGAGATCTTTG - 19680
 - F P S L I M L F T Q R * M V L M W R S L
 - F H H * * C C L H K G R W Y * C G D L *
 - S I I N N A V Y T K V D G I D V E I F E
 19681 - AAAATAAGACAACACTTCCTGTTAATGTTGCATTTGAGCTTTGGGCTAAGCGTAACATTA - 19740
 - K I R Q H F L L M L H L S F G L S V T L
 - K * D N T S C * C C I * A L G * A * H *
 - N K T T L P V N V A F E L W A K R N I K
 19741 - AACCAGTGCCAGAGATTAAGATACTCAATAATTTGGGTGTTGATATCGCTGCTAATACTG - 19800
 - N Q C Q R L R Y S I I W V L I S L L I L
 - T S A R D * D T Q * F G C * Y R C * Y C
 - P V P E I K I L N N L G V D I A A N T V
 19801 - TAATCTGGGACTACAAAAGAGAAGCCCCAGCACATGTATCTACAATAGGTGTCTGCACAA - 19860
 - * S G T T K E K P Q H M Y L Q * V S A Q
 - N L G L Q K R S P S T C I Y N R C L H N
 - I W D Y K R E A P A H V S T I G V C T M
 19861 - TGACTGACATTGCCAAGAAACCTACTGAGAGTGCTTGTCTTCACTTACTGTCTTGTGTTG - 19920
 - * L T L P R N L L R V L V L H L L S C L
 - D * H C Q E T Y * E C L F F T Y C L V *
 - T D I A K K P T E S A C S S L T V L F D
 19921 - ATGGTAGAGTGAAGGACAGGTAGACCTTTTTAGAAACGCCCGTAATGGTGTGTTTAATAA - 19980
 - M V E W K D R * T F L E T P V M V F * *
 - W * S G R T G R P F * K R P * W C F N N
 - G R V E G Q V D L F R N A R N G V L I T
 19981 - CAGAAGGTTTCAGTCAAAGGTCTAACACCTTCAAAGGGACCAGCACAAAGCTAGCGTCAATG - 20040
 - Q K V Q S K V * H L Q R D Q H K L A S M
 - R R F S Q R S N T F K G T S T S * R Q W
 - E G S V K G L T P S K G P A Q A S V N G
 20041 - GAGTCACATTAATTGGAGAATCAGTAAAAACACAGTTTAACTACTTTAAGAAAGTAGACG - 20100
 - E S H * L E N Q * K H S L T T L R K * T
 - S H I N W R I S K N T V * L L * E S R R
 - V T L I G E S V K T Q F N Y F K K V D G
 20101 - GCATTATTCAACAGTTGCCTGAAACCTACTTTACTCAGAGCAGAGACTTAGAGGATTTTA - 20160
 - A L F N S C L K P T L L R A E T * R I L
 - H Y S T V A * N L L Y S E Q R L R G F *
 - I I Q Q L P E T Y F T Q S R D L E D F K

FIG. 11 Con't

20161 - AGCCCAGATCACAAATGGAACTGACTTTCTCGAGCTCGCTATGGATGAATTCATACAGC - 20220
 - S P D H K W K L T F S S S L W M N S Y S
 - A Q I T N G N * L S R A R Y G * I H T A
 - P R S Q M E T D F L E L A M D E F I Q R
 20221 - GATATAAGCTCGAGGGCTATGCCTTCGAACACATCGTTTATGGAGATTTTCAGTCATGGAC - 20280
 - D I S S R A M P S N T S F M E I S V M D
 - I * A R G L C L R T H R L W R F Q S W T
 - Y K L E G Y A F E H I V Y G D F S H G Q
 20281 - AACTTGGCGGTCTTCATTTAATGATAGGCTTAGCCAAGCGCTCACAAAGATTCACCACTTA - 20340
 - N L A V F I * * * A * P S A H K I H H L
 - T W R S S F N D R L S Q A L T R F T T *
 - L G G L H L M I G L A K R S Q D S P L K
 20341 - AATTAGAGGATTTTATCCCTATGGACAGCACAGTGAAAAATTACTTCATAACAGATGCGC - 20400
 - N * R I L S L W T A Q * K I T S * Q M R
 - I R G F Y P Y G Q H S E K L L H N R C A
 - L E D F I P M D S T V K N Y F I T D A Q
 20401 - AAACAGGTTTCATCAAAATGTGTGTGTTCTGTGATTGATCTTTTACTTGATGACTTTGTGCG - 20460
 - K Q V H Q N V C V L * L I F Y L M T L S
 - N R F I K M C V F C D * S F T * * L C R
 - T G S S K C V C S V I D L L L D D F V E
 20461 - AGATAATAAGTCACAAGATTTGTCAAGTGAATTTCAAAAGTGGTCAAGGTTACAATTGACT - 20520
 - R * * S H K I C Q * F Q K W S R L Q L T
 - D N K V T R F V S D F K S G Q G Y N * L
 - I I K S Q D L S V I S K V V K V T I D Y
 20521 - ATGCTGAAATTTTCATTCATGCTTTGGTGTAAGGATGGACATGTTGAAACCTTCTACCCAA - 20580
 - M L K F H S C F G V R M D M L K P S T Q
 - C * N F I H A L V * G W T C * N L L P K
 - A E I S F M L W C K D G H V E T F Y P K
 20581 - AACTACAAGCAAGTCAAGCGTGGCAACCAGGTGTTGCGATGCCTAACTTGTACAAGATGC - 20640
 - N Y K Q V K R G N Q V L R C L T C T R C
 - T T S K S S V A T R C C D A * L V Q D A
 - L Q A S Q A W Q P G V A M P N L Y K M Q
 20641 - AAAGAATGCTTCTTGAAAAGTGTGACCTTCAGAATTATGGTGAAAATGCTGTTATACCAA - 20700
 - K E C F L K S V T F R I M V K M L L Y Q
 - K N A S * K V * P S E L W * K C C Y T K
 - R M L L E K C D L Q N Y G E N A V I P K
 20701 - AAGGAATAATGATGAATGTCGCAAAGTATACTCAACTGTGTCAATACTTAAATACACTTA - 20760
 - K E * * * M S Q S I L N C V N T * I H L
 - R N N D E C R K V Y S T V S I L K Y T Y
 - G I M M N V A K Y T Q L C Q Y L N T L T
 20761 - CTTTAGCTGTACCCTACAACATGAGAGTTATTCACTTTGGTGCTGGCTCTGATAAAGGAG - 20820
 - L * L Y P T T * E L F T L V L A L I K E
 - F S C T L Q H E S Y S L W C W L * * R S
 - L A V P Y N M R V I H F G A G S D K G V
 20821 - TTGCACCAGGTACAGCTGTGCTCAGACAATGGTTGCCAACTGGCACACTACTTGTGCGATT - 20880
 - L H Q V Q L C S D N G C Q L A H Y L S I
 - C T R Y S C A Q T M V A N W H T T C R F
 - A P G T A V L R Q W L P T G T L L V D S
 20881 - CAGATCTTAATGACTTCGTCTCCGACGCAGATTCTACTTTAATTGGAGACTGTGCAACAG - 20940
 - Q I L M T S S P T Q I L L * L E T V Q Q
 - R S * * L R L R R R F Y F N W R L C N S
 - D L N D F V S D A D S T L I G D C A T V
 20941 - TACATACGGCTAATAAATGGGACCTTATTATTAGCGATATGTATGACCCTAGGACCAAAC - 21000
 - Y I R L I N G T L L L A I C M T L G P N
 - T Y G * * M G P Y Y * R Y V * P * D Q T
 - H T A N K W D L I I S D M Y D P R T K H

FIG. 11 Con't

21001 - ATGTGACAAAAAGAGAATGACTCTAAAGAAGGGTTTTTCACTTATCTGTGTGGATTTATAA - 21060
 - M * Q K R M T L K K G F S L I C V D L *
 - C D K R E * L * R R V F H L S V W I Y K
 - V T K E N D S K E G F F T Y L C G F I K
 21061 - AGCAAAAAGTAGCCCTGGGTGGTTCTATAGCTGTAAAGATAACAGAGCATTCTTGGGAATG - 21120
 - S K N * P W V V L * L * R * Q S I L G M
 - A K T S P G W F Y S C K D N R A F L E C
 - Q K L A L G G S I A V K I T E H S W N A
 21121 - CTGACCTTTACAAGCTTATGGGCCATTTCTCATGGTGGACAGCTTTTGTACAAATGTAA - 21180
 - L T F T S L W A I S H G G Q L L L Q M *
 - * P L Q A Y G P F L M V D S F C Y K C K
 - D L Y K L M G H F S W W T A F V T N V N
 21181 - ATGCATCATCATCGGAAGCATTTTTAATTGGGGCTAACTATCTTGGCAAGCCGAAGGAAC - 21240
 - M H H H R K H F * L G L T I L A S R R N
 - C I I I G S I F N W G * L S W Q A E G T
 - A S S S E A F L I G A N Y L G K P K E Q
 21241 - AAATTGATGGCTATACCATGCATGCTAACTACATTTTCTGGAGGAACACAAATCCTATCC - 21300
 - K L M A I P C M L T T F S G G T Q I L S
 - N * W L Y H A C * L H F L E E H K S Y P
 - I D G Y T M H A N Y I F W R N T N P I Q
 21301 - AGTTGTCTTCTTACTCTTTGACATGAGCAAATTTCTCTTAAATTAAGAGGAACTG - 21360
 - S C L P I H S L T * A N F L L N * E E L
 - V V F L F T L * H E Q I S S * I K R N C
 - L S S Y S L F D M S K F P L K L R G T A
 21361 - CTGTAATGTCTCTTAAGGAGAATCAAATCAATGATATGATTTATTCTCTTCTTGAAAAAG - 21420
 - L * C L L R R I K S M I * F I L F W K K
 - C N V S * G E S N Q * Y D L F S S G K R
 - V M S L K E N Q I N D M I Y S L L E K G
 21421 - GTAGGCTTATCATTAGAGAAAACAACAGAGTTGTGGTTTCAAGTGATATTCTTGTTAACA - 21480
 - V G L S L E K T T E L W F Q V I F L L T
 - * A Y H * R K Q Q S C G F K * Y S C * Q
 - R L I I R E N N R V V V S S D I L V N N
 21481 - ACTAAACGAACATGTTTATTTTCTTATTATTTCTTACTCTCACTAGTGGTAGTGACCTTG - 21540
 - T K R T C L F S Y Y F L L S L V V V T L
 - L N E H V Y F L I I S Y S H * W * * P *
 - * T N M F I F L L F L T L T S G S D L D
 21541 - ACCGGTGCACCACTTTTGTATGATGTTCAAGCTCCTAATTACACTCAACACTACTCATCTA - 21600
 - T G A P L L M M F K L L I T L N I L H L
 - P V H H F * * C S S S * L H S T Y F I Y
 - R C T T F D D V Q A P N Y T Q H T S S M
 21601 - TGAGGGGGGTTTACTATCCTGATGAAATTTTAGATCAGACACTCTTTATTTAACTCAGG - 21660
 - * G G F T I L M K F L D Q T L F I * L R
 - E G G L L S * * N F * I R H S L F N S G
 - R G V Y Y P D E I F R S D T L Y L T Q D
 21661 - ATTTATTTCTTCCATTTTATTCTAATGTTACAGGGTTTCATACTATTAATCATACGTTTG - 21720
 - I Y F F H F I L M L Q G F I L L I I R L
 - F I S S I L F * C Y R V S Y Y * S Y V W
 - L F L P F Y S N V T G F H T I N H T F G
 21721 - GCAACCCTGTCATACCTTTTAAGGATGGTATTTATTTTGCTGCCACAGAGAAATCAAATG - 21780
 - A T L S Y L L R M V F I L L P Q R N Q M
 - Q P C H T F * G W Y L F C C H R E I K C
 - N P V I P F K D G I Y F A A T E K S N V
 21781 - TTGTCGGTGGTTGGGTTTTTGGTTCTACCATGAACAACAAGTCACAGTCGGTGATTATTA - 21840
 - L S V V G F L V L P * T T S H S R * L L
 - C P W L G F W F Y H E Q Q V T V G D Y Y
 - V R G W V F G S T M N N K S Q S V I I I

FIG. 11 Con't

21841 - TTAACAATTCTACTAATGTTGTTATACGAGCATGTAACCTTTGAATTGTGTGACAACCCTT - 21900
 - L T I L L M L L Y E H V T L N C V T T L
 - * Q F Y * C C Y T S M * L * I V * Q P F
 - N N S T N V V I R A C N F E L C D N P F
 21901 - TCTTTGCTGTTTCTAAACCCATGGGTACACAGACATACTATGATATTCGATAATGCAT - 21960
 - S L L F L N P W V H R H I L * Y S I M H
 - L C C F * T H G Y T D T Y Y D I R * C I
 - F A V S K P M G T Q T H T M I F D N A F
 21961 - TTAATTGCACTTTTCGAGTACATATCTGATGCCTTTTCGCTTGATGTTTCAGAAAAGTCAG - 22020
 - L I A L S S T Y L M P F R L M F Q K S Q
 - * L H F R V H I * C L F A * C F R K V R
 - N C T F E Y I S D A F S L D V S E K S G
 22021 - GTAATTTTAAACACTTACGAGAGTTTGTGTTTAAAAATAAAGATGGGTTTCTCTATGTTT - 22080
 - V I L N T Y E S L C L K I K M G F S M F
 - * F * T L T R V C V * K * R W V S L C L
 - N F K H L R E F V F K N K D G F L Y V Y
 22081 - ATAAGGGCTATCAACCTATAGATGTAGTTCGTGATCTACCTTCTGGTTTAAACACTTTGA - 22140
 - I R A I N L * M * F V I Y L L V L T L *
 - * G L S T Y R C S S * S T F W F * H F E
 - K G Y Q P I D V V R D L P S G F N T L K
 22141 - AACCTATTTTAAAGTTGCCTCTTGGTATTAACATTACAAATTTTAGAGCCATTCTTACAG - 22200
 - N L F L S C L L V L T L Q I L E P F L Q
 - T Y F * V A S W Y * H Y K F * S H S Y S
 - P I F K L P L G I N I T N F R A I L T A
 22201 - CCTTTTCACCTGCTCAAGACATTTGGGGCACGTCAGCTGCAGCCTATTTTGTGGCTATT - 22260
 - P F H L L K T F G A R Q L Q P I L L A I
 - L F T C S R H L G H V S C S L F C W L F
 - F S P A Q D I W G T S A A A Y F V G Y L
 22261 - TAAAGCCAACTACATTTATGCTCAAGTATGATGAAAATGGTACAATCACAGATGCTGTTG - 22320
 - * S Q L H L C S S M M K M V Q S Q M L L
 - K A N Y I Y A Q V * * K W Y N H R C C *
 - K P T T F M L K Y D E N G T I T D A V D
 22321 - ATTGTTCTCAAAATCCACTTGCTGAACCTCAATGCTCTGTTAAGAGCTTTGAGATTGACA - 22380
 - I V L K I H L L N S N A L L R A L R L T
 - L F S K S T C * T Q M L C * E L * D * Q
 - C S Q N P L A E L K C S V K S F E I D K
 22381 - AAGGAATTTACCAGACCTCTAATTTACAGGTTGTTCCCTCAGGAGATGTTGTGAGATTCC - 22440
 - K E F T R P L I S G L F P Q E M L * D S
 - R N L P D L * F G G C S L R R C C E I P
 - G I Y Q T S N F R V V P S G D V V R F P
 22441 - CTAATATTACAACTTGTGTCCTTTTGGAGAGGTTTTTAATGCTACTAAATCCCTTCTG - 22500
 - L I L Q T C V L L E R F L M L L N S L L
 - * Y Y K L V S F W R G F * C Y * I P F C
 - N I T N L C P F G E V F N A T K F P S V
 22501 - TCTATGCATGGGAGAGAAAAAAATTTCTAATTGTGTTGCTGATTACTCTGTGCTCTACA - 22560
 - S M H G R E K K F L I V L L I T L C S T
 - L C M G E K K N F * L C C * L L C A L Q
 - Y A W E R K K I S N C V A D Y S V L Y N
 22561 - ACTCAACATTTTTTTCAACCTTTAAGTGCTATGGCGTTTCTGCCACTAAGTTGAATGATC - 22620
 - T Q H F F Q P L S A M A F L P L S * M I
 - L N I F F N L * V L W R F C H * V E * S
 - S T F F S T F K C Y G V S A T K L N D L
 22621 - TTTGCTTCTCCAATGTCTATGCAGATTCTTTTGTAGTCAAGGGAGATGATGTAAGACAAA - 22680
 - F A S P M S M Q I L L * S R E M M * D K
 - L L L Q C L C R F F C S Q G R * C K T N
 - C F S N V Y A D S F V V K G D D V R Q I

FIG. 11 Con't

22681 - TAGCGCCAGGACAAACTGGTGTATTGCTGATTATAATTATAAAATTGCCAGATGATTTCA - 22740
 - * R Q D K L V L L L I I I I N C Q M I S
 - S A R T N W C Y C * L * L * I A R * F H
 - A P G Q T G V I A D Y N Y K L P D D F M
 22741 - TGGGTTGTGTCCTTGCTTGAATACTAGGAACATTGATGCTACTTCAACTGGTAATTATA - 22800
 - W V V S L L G I L G T L M L L Q L V I I
 - G L C P C L E Y * E H * C Y F N W * L *
 - G C V L A W N T R N I D A T S T G N Y N
 22801 - ATTATAAATATAGGTATCTTAGACATGGCAAGCTTAGGCCCTTTGAGAGAGACATATCTA - 22860
 - I I N I G I L D M A S L G P L R E T Y L
 - L * I * V S * T W Q A * A L * E R H I *
 - Y K Y R Y L R H G K L R P F E R D I S N
 22861 - ATGTGCCTTTCTCCCCTGATGGCAAACCTTGACCCACCTGCTCTTAATTGTTATTGGC - 22920
 - M C L S P L M A N L A P H L L L I V I G
 - C A F L P * W Q T L H P T C S * L L L A
 - V P F S P D G K P C T P P A L N C Y W P
 22921 - CATTAAATGATTATGGTTTTTACACCACTACTGGCATTGGCTACCAACCTTACAGAGTTG - 22980
 - H * M I M V F T P L L A L A T N L T E L
 - I K * L W F L H H Y W H W L P T L Q S C
 - L N D Y G F Y T T T G I G Y Q P Y R V V
 22981 - TAGTACTTTCTTTTGAACCTTTTAAATGCACCGGCCACGGTTTGTGGACCAAAATTATCCA - 23040
 - * Y F L L N F * M H R P R F V D Q N Y P
 - S T F F * T F K C T G H G L W T K I I H
 - V L S F E L L N A P A T V C G P K L S T
 23041 - CTGACCTTATTAAGAACCAGTGTGTCAATTTTAAATTTAATGGACTCACTGGTACTGGTG - 23100
 - L T L L R T S V S I L I L M D S L V L V
 - * P Y * E P V C Q F * F * W T H W Y W C
 - D L I K N Q C V N F N F N G L T G T G V
 23101 - TGTTAACTCCTTCTTCAAAGAGATTTCAACCATTTCACAATTTGGCCGTGATGTTTCTG - 23160
 - C * L L L Q R D F N H F N N L A V M F L
 - V N S F F K E I S T I S T I W P * C F *
 - L T P S S K R F Q P F Q Q F G R D V S D
 23161 - ATTTCACTGATTCCGTTTCGAGATCCTAAAACATCTGAAATATTAGACATTTACCTTGCT - 23220
 - I S L I P F E I L K H L K Y * T F H L A
 - F H * F R S R S * N I * N I R H F T L L
 - F T D S V R D P K T S E I L D I S P C S
 23221 - CTTTGGGGGTGTAAGTGTAATTACACCTGGAACAAATGCTTCATCTGAAGTTGCTGTTT - 23280
 - L L G V * V * L H L E Q M L H L K L L F
 - F W G C K C N Y T W N K C F I * S C C S
 - F G G V S V I T P G T N A S S E V A V L
 23281 - TATATCAAGATGTTAACTGCACTGATGTTTCTACAGCAATTCATGCAGATCAACTCACAC - 23340
 - Y I K M L T A L M F L Q Q F M Q I N S H
 - I S R C * L H * C F Y S N S C R S T H T
 - Y Q D V N C T D V S T A I H A D Q L T P
 23341 - CAGCTTGGCGCATATATTCTACTGGAAACAATGTATTCCAGACTCAAGCAGGCTGTCTTA - 23400
 - Q L G A Y I L L E T M Y S R L K Q A V L
 - S L A H I F Y W K Q C I P D S S R L S Y
 - A W R I Y S T G N N V F Q T Q A G C L I
 23401 - TAGGAGCTGAGCATGTCGACACTTCTTATGAGTGCGACATTCCTATTGGAGCTGGCATT - 23460
 - * E L S M S T L L M S A T F L L E L A F
 - R S * A C R H F L * V R H S Y W S W H L
 - G A E H V D T S Y E C D I P I G A G I C
 23461 - GTGCTAGTTACCATACAGTTTCTTTATTACGTAGTACTAGCCAAAAATCTATTGTGGCTT - 23520
 - V L V T I Q F L Y Y V V L A K N L L W L
 - C * L P Y S F F I T * Y * P K I Y C G L
 - A S Y H T V S L L R S T S Q K S I V A Y

FIG. 11 Con't

23521 - ATACTATGTCTTTAGGTGCTGATAGTTCAATTGCTTACTCTAATAACACCATTGCTATAC - 23580
 - I L C L * V L I V Q L L T L I T P L L Y
 - Y Y V F R C * * F N C L L * * H H C Y T
 - T M S L G A D S S I A Y S N N T I A I P
 23581 - CTACTAACTTTTCAATTAGCATTACTACAGAAGTAATGCCTGTTTCTATGGCTAAAACCT - 23640
 - L L T F Q L A L L Q K * C L F L W L K P
 - Y * L F N * H Y Y R S N A C F Y G * N L
 - T N F S I S I T T E V M P V S M A K T S
 23641 - CCGTAGATTGTAATATGTACATCTGCGGAGATTCTACTGAATGTGCTAATTTGCTTCTCC - 23700
 - P * I V I C T S A E I L L N V L I C F S
 - R R L * Y V H L R R F Y * M C * F A S P
 - V D C N M Y I C G R D S T E C A N L L L Q
 23701 - AATATGGTAGCTTTTGCACACAATAAATCGTGCCTCTCAGGTATTGCTGCTGAACAGG - 23760
 - N M V A F A H N * I V H S Q V L L L N R
 - I W * L L H T T K S C T L R Y C C * T G
 - Y G S F C T Q L N R A L S G I A A E Q D
 23761 - ATCGCAACACACGTGAAGTGTTCGCTCAAGTCAAACAAATGTACAAAACCCCAACTTTGA - 23820
 - I A T H V K C S L K S N K C T K P Q L *
 - S Q H T * S V R S S Q T N V Q N P N F E
 - R N T R E V F A Q V K Q M Y K T P T L K
 23821 - AATATTTTGGTGGTTTAAATTTTACAAATATTACCTGACCCTCTAAAGCCAACTAAGA - 23880
 - N I L V V L I F H K Y Y L T L * S Q L R
 - I F W W F * F F T N I T * P S K A N * E
 - Y F G G F N F S Q I L P D P L K P T K R
 23881 - GGTCTTTTATTGAGGACTTGCTCTTTAATAAGGTGACACTCGCTGATGCTGGCTTCATGA - 23940
 - G L L L R T C S L I R * H S L M L A S *
 - V F Y * G L A L * * G D T R * C W L H E
 - S F I E D L L F N K V T L A D A G F M K
 23941 - AGCAATATGGCGAATGCCTAGGTGATATTAATAGATCTCATTGTGCGCAGAAGT - 24000
 - S N M A N A * V I L M L E I S F V R R S
 - A I W R M P R * Y * C * R S H L C A E V
 - Q Y G E C L G D I N A R D L I C A Q K F
 24001 - TCAATGGACTTACAGTGTGCGCACCTCTGCTCACTGATGATATGATTGCTGCCTACACTG - 24060
 - S M D L Q C C H L C S L M I * L L P T L
 - Q W T Y S V A T S A H * * Y D C C L H C
 - N G L T V L P P L L T D D M I A A Y T A
 24061 - CTGCTCTAGTTAGTGGTACTGCCACTGCTGGATGGACATTTGGTGTGCGCTGCTCTTC - 24120
 - L L * L V V L P L L D G H L V L A L F
 - C S S * W Y C H C W M D I W C W R C S S
 - A L V S G T A T A G W T F G A G A A L Q
 24121 - AAATACCTTTTGCTATGCAAATGGCATATAGGTTCAATGGCATTGGAGTTACCCAAAATG - 24180
 - K Y L L L C K W H I G S M A L E L P K M
 - N T F C Y A N G I * V Q W H W S Y P K C
 - I P F A M Q M A Y R F N G I G V T Q N V
 24181 - TTCTCTATGAGAACCACAAAACAAATCGCCAACCAATTTAACAAGGCGATTAGTCAAATTC - 24240
 - F S M R T K N K S P T N L T R R L V K F
 - S L * E P K T N R Q P I * Q G D * S N S
 - L Y E N Q K Q I A N Q F N K A I S Q I Q
 24241 - AAGAATCACTTACAACAACATCAACTGCATTGGGCAAGCTGCAAGACGTTGTTAACCAGA - 24300
 - K N H L Q Q H Q L H W A S C K T L L T R
 - R I T Y N N I N C I G Q A A R R C * P E
 - E S L T T T S T A L G K L Q D V V N Q N
 24301 - ATGCTCAAGCATTAAACACACTTGTTAAACAACTTAGCTCTAATTTTGGTGCAATTTCAA - 24360
 - M L K H * T H L L N N L A L I L V Q F Q
 - C S S I K H T C * T T * L * F W C N F K
 - A Q A L N T L V K Q L S S N F G A I S S

FIG. 11 Con't

24361 - GTGTGCTAAATGATATCCTTTTCGCGACTTGATAAAGTCGAGGCGGAGGTACAAATTGACA - 24420
 - V C * M I S F R D L I K S R R R Y K L T
 - C A K * Y P F A T * * S R G G G T N * Q
 - V L N D I L S R L D K V E A E V Q I D R
 24421 - GGTTAATTACAGGCAGACTTCAAAGCCTTCAAACCTATGTAACACAACAATAATCAGGG - 24480
 - G * L Q A D F K A F K P M * H N N * S G
 - V N Y R Q T S K P S N L C N T T T N Q G
 - L I T G R L Q S L Q T Y V T Q Q L I R A
 24481 - CTGCTGAAATCAGGGCTTCTGCTAATCTTGCTGCTACTAAAATGTCTGAGTGTGTTCTTG - 24540
 - L L K S G L L L I L L L L K C L S V F L
 - C * N Q G F C * S C C Y * N V * V C S W
 - A E I R A S A N L A A T K M S E C V L G
 24541 - GACAATCAAAAAGAGTTGACTTTTGTGGAAAGGGCTACCACCTTATGTCCTTCCCACAAG - 24600
 - D N Q K E L T F V E R A T T L C P S H K
 - T I K K S * L L W K G L P P Y V L P T S
 - Q S K R V D F C G K G Y H L M S F P Q A
 24601 - CAGCCCCGCATGGTGTGCTTCTTACATGTCACGTATGTGCCATCCCAGGAGAGGAACT - 24660
 - Q P R M V L S S Y M S R M C H P R R G T
 - S P A W C C L P T C H V C A I P G E E L
 - A P H G V V F L H V T Y V P S Q E R N F
 24661 - TCACCACAGCGCCAGCAATTTGTCATGAAGGCAAAGCATACTTCCCTCGTGAAGGTGTTT - 24720
 - S P Q R Q Q F V M K A K H T S L V K V F
 - H H S A S N L S * R Q S I L P S * R C F
 - T T A P A I C H E G K A Y F P R E G V F
 24721 - TTGTGTTTAATGGCACTTCTTGTTTATTACACAGAGGAACTTCTTTTCTCCACAAATAA - 24780
 - L C L M A L L G L L H R G T S F L H K *
 - C V * W H F L V Y Y T E E L L F S T N N
 - V F N G T S W F I T Q R N F F S P Q I I
 24781 - TTACTACAGACAATACATTTGTCTCAGGAAATTGTGATGTCGTTATTGGCATCATTAACA - 24840
 - L L Q T I H S Q E I V M S L L A S L T
 - Y Y R Q Y I C L R K L * C R Y W H H * Q
 - T T D N T F V S G N C D V V I G I I N N
 24841 - ACACAGTTTATGATCCTCTGCAACCTGAGCTTGACTCATTCAAAGAAGAGCTGGACAAGT - 24900
 - T Q F M I L C N L S L T H S K K S W T S
 - H S L * S S A T * A * L I Q R R A G Q V
 - T V Y D P L Q P E L D S F K E E L D K Y
 24901 - ACTTCAAAAATCATAATCACCAGATGTTGATCTTGGCGACATTCAGGCATTAACGCTT - 24960
 - T S K I I H Q M L I L A T F Q A L T L
 - L Q K S Y I T R C * S W R H F R H * R F
 - F K N H T S P D V D L G D I S G I N A S
 24961 - CTGTCGTCAACATTCAAAAAGAAATTGACCGCCTCAATGAGGTCGCTAAAAATTTAAATG - 25020
 - L S S T F K K K L T A S M R S L K I * M
 - C R Q H S K R N * P P Q * G R * K F K *
 - V V N I Q K E I D R L N E V A K N L N E
 25021 - AATCACTCATTGACCTTCAAGAATTGGGAAAATATGAGCAATATATTAATGGCCTTGGT - 25080
 - N H S L T F K N W E N M S N I L N G L G
 - I T H * P S R I G K I * A I Y * M A L V
 - S L I D L Q E L G K Y E Q Y I K W P W Y
 25081 - ATGTTTGGCTCGGCTTCATTGCTGGACTAATTGCCATCGTCATGGTTACAATCTTGCTTT - 25140
 - M F G S A S L L D * L P S S W L Q S C F
 - C L A R L H C W T N C H R H G Y N L A L
 - V W L G F I A G L I A I V M V T I L L C
 25141 - GTTGCATGACTAGTTGTTGCAGTTGCCTCAAGGGTGCATGCTCTTGTGGTTCTTGCTGCA - 25200
 - V A * L V V A V A S R V H A L V V L A A
 - L H D * L L Q L P Q G C M L L W F L L Q
 - C M T S C C S C L K G A C S C G S C C K

FIG. 11 Con't


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25201 - AGTTTGATGAGGATGACTCTGAGCCAGTTCTCAAGGGTGTCAAATTACATTACACATAAA - 25260
- S L M R M T L S Q F S R V S N Y I T H K
- V * * G * L * A S S Q G C Q I T L H I N
- F D E D D S E P V L K G V K L H Y T * T
25261 - CGAACTTATGGATTGTTTATGAGATTTTTTACTCTTGGATCAATTACTGCACAGCCAGT - 25320
- R T Y G F V Y E I F Y S W I N Y C T A S
- E L M D L F M R F F T L G S I T A Q P V
- N L W I C L * D F L L L D Q L L H S Q *
25321 - AAAAATTGACAATGCTTCTCCTGCAAGTACTGTTTCATGCTACAGCAACGATACCGCTACA - 25380
- K N * Q C F S C K Y C S C Y S N D T A T
- K I D N A S P A S T V H A T A T I P L Q
- K L T M L L L Q V L F M L Q Q R Y R Y K
25381 - AGCCTCACTCCCTTTTCGGATGGCTTGTATTGGCGTTGCATTCTTGCTGTTTTTTCAGAG - 25440
- S L T P F R M A C Y W R C I S C C F S E
- A S L P F G W L V I G V A F L A V F Q S
- P H S L S D G L L L A L H F L L F F R A
25441 - CGCTACCAAAATAATTGCGCTCAATAAAAGATGGCAGCTAGCCCTTTATAAGGGCTTCCA - 25500
- R Y Q N N C A Q * K M A A S P L * G L P
- A T K I I A L N K R W Q L A L Y K G F Q
- L P K * L R S I K D G S * P F I R A S S
25501 - GTTCATTGCAATTTACTGCTGCTATTTGTACCATCTATTACATCTTTTGCTTGTCGC - 25560
- V H L Q F T A A I C Y H L F T S F A C R
- F I C N L L L L F V T I Y S H L L L V A
- S F A I Y C C Y L L P S I H I F C L S L
25561 - TGCAGGTAAGGAGGCGCAATTTTTGTACCTCTATGCCTTGATATATTTTCTACAATGCAT - 25620
- C R * G G A I F V P L C L D I F S T M H
- A G K E A Q F L Y L Y A L I Y F L Q C I
- Q V R R R N F C T S M P * Y I F Y N A S
25621 - CAACGCATGTAGAATTATTATGAGATGTTGGCTTTGTTGGAAGTGCAAATCCAAGAACC - 25680
- Q R M * N Y Y E M L A L L E V Q I Q E P
- N A C R I I M R C W L C W K C K S K N P
- T H V E L L * D V G F V G S A N P R T H
25681 - ATTACTTTATGATGCCAACTACTTTGTTTGCTGGCACACACATAACTATGACTACTGTAT - 25740
- I T L * C Q L L C L L A H T * L * L L Y
- L L Y D A N Y F V C W H T H N Y D Y C I
- Y F M M P T T L F A G T H I T M T T V Y
25741 - ACCATATAACAGTGTACAGATACAATTGTCGTTACTGAAGGTGACGGCATTTCACACC - 25800
- T I * Q C H R Y N C R Y * R * R H F N T
- P Y N S V T D T I V V T E G D G I S T P
- H I T V S Q I Q L S L L K V T A F Q H Q
25801 - AAAACTCAAAGAAGACTACCAAATTGGTGGTTATTCTGAGGATAGGCACTCAGGTGTTAA - 25860
- K T Q R R L P N W W L F * G * A L R C *
- K L K E D Y Q I G G Y S E D R H S G V K
- N S K K T T K L V V I L R I G T Q V L K
25861 - AGACTATGTCGTTGTACATGGCTATTTACCGAAGTTTACTACCAGCTTGAGTCTACACA - 25920
- R L C R C T W L F H R S L L P A * V Y T
- D Y V V V H G Y F T E V Y Y Q L E S T Q
- T M S L Y M A I S P K F T T S L S L H K
25921 - AATTACTACAGACACTGGTATTGAAAATGCTACATTCTTCATCTTTAACAAGCTTGTTAA - 25980
- N Y Y R H W Y * K C Y I L H L * Q A C *
- I T T D T G I E N A T F F I F N K L V K
- L L Q T L V L K M L H S S S L T S L L K
25981 - AGACCCACCGAATGTGCAAATACACAATCGACGGCTCTTCAGGAGTTGCTAATCCAGC - 26040
- R P T E C A N T H N R R L F R S C * S S
- D P P N V Q I H T I D G S S G V A N P A
- T H R M C K Y T Q S T A L Q E L L I Q Q

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FIG. 11 Con't

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26041 - AATGGATCCAATTTATGATGAGCCGACGACGACTACTAGCGTGCCTTTGTAAGCACAAGA - 26100
      - N G S N L * * A D D D Y * R A F V S T R
      - M D P I Y D E P T T T T S V P L * A Q E
      - W I Q F M M S R R R L L A C L C K H K K
26101 - AAGTGAGTACGAACTTATGTACTCATTCGTTTCGGAAGAAACAGGTACGTTAATAGTTAA - 26160
      - K * V R T Y V L I R F G R N R Y V N S *
      - S E Y E L M Y S F V S E E T G T L I V N
      - V S T N L C T H S F R K K Q V R * * L I
26161 - TAGCGTACTTCTTTTTCTTGCTTTTCGTGGTATTCTTGCTAGTCACACTAGCCATCCTTAC - 26220
      - * R T S F S C F R G I L A S H T S H P Y
      - S V L L F L A F V V F L L V T L A I L T
      - A Y F F F L L S W Y S C * S H * P S L L
26221 - TCGCGTTTCGATTGTGTGCGTACTGCTGCAATATTGTTAACGTGAGTTTAGTAAAACCAAC - 26280
      - C A S I V C V L L Q Y C * R E F S K T N
      - A L R L C A Y C C N I V N V S L V K P T
      - R F D C V R T A A I L L T * V * * N Q R
26281 - GGTTTACGTCTACTCGCGTGTTAAAAATCTGAACTCTTCTGAAGGAGTTCCTGATCTTCT - 26340
      - G L R L L A C * K S E L F * R S S * S S
      - V Y V Y S R V K N L N S S E G V P D L L
      - F T S T R V L K I * T L L K E F L I F W
26341 - GGTCTAAACGAACAACTAATTATTATTATTCTGTTTGGAACTTTAACATTGCTTATCATG - 26400
      - G L N E L T I I I I L F G T L T L L I M
      - V * T N * L L L L F C L E L * H C L S W
      - S K R T N Y Y Y Y S V W N F N I A Y H G
26401 - GCAGACAACGGTACTATTACCGTTGAGGAGCTTAAACAACCTCCTGGAACAATGGAACCTA - 26460
      - A D N G T I T V E E L K Q L L E Q W N L
      - Q T T V L L P L R S L N N S W N N G T *
      - R Q R Y Y Y R * G A * T T P G T M E P S
26461 - GTAATAGGTTTCTTATTCTAGCCTGGATTATGTTACTACAATTTGCCTATTCTAATCGG - 26520
      - V I G F L F L A W I M L L Q F A Y S N R
      - * * V S Y S * P G L C Y Y N L P I L I G
      - N R F P I P S L D Y V T T I C L F * S E
26521 - AACAGGTTTTTGTACATAATAAAGCTTGTTTTCTCTGGCTCTTGTGGCCAGTAACACTT - 26580
      - N R F L Y I I K L V F L W L L W P V T L
      - T G F C T * * S L F S S G S C G Q * H L
      - Q V F V H N K A C F P L A L V A S N T C
26581 - GCTTGTTTTGTGCTTGCTGTTGTCTACAGAATTAATTGGGTGACTGGCGGGATTGCGATT - 26640
      - A C F V L A V V Y R I N W V T G G I A I
      - L V L C L L S T E L I G * L A G L R L
      - L F C A ` C C C L Q N * L G D W R D C D C
26641 - GCAATGGCTTGTATTGTAGGCTTGATGTGGCTTAGCTACTTCGTTGCTTCCTTCAGGCTG - 26700
      - A M A C I V G L M W L S Y F V A S F R L
      - Q W L V L * A * C G L A T S L L P S G C
      - N G L Y C R L D V A * L L R C F L Q A V
26701 - TTTGCTCGTACCCGCTCAATGTGGTCATTCAACCCAGAAACAAACATTCTTCTCAATGTG - 26760
      - F A R T R S M W S F N P E T N I L L N V
      - L L V P A Q C G H S T Q K Q T F S M C
      - C S Y P L N V V I Q P R N K H S S C A
26761 - CCTCTCCGGGGGACAATTGTGACCAGACCGCTCATGGAAAGTGAACCTTGTCATTGGTGCT - 26820
      - P L R G T I V T R P L M E S E L V I G A
      - L S G G Q L * P D R S W K V N L S L V L
      - S P G D N C D Q T A H G K * T C H W C C
26821 - GTGATCATTCGTGGTCACTTGCGAATGGCCGGACACTCCCTAGGGCGCTGTGACATTAAG - 26880
      - V I I R G H L R M A G H S L G R C D I K
      - * S F V V T C E W P D T P * G A V T L R
      - D H S W S L A N G R T L P R A L * H * G

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FIG. 11 Con't

26881 - GACCTGCCAAAAGAGATCACTGTGGCTACATCACGAACGCTTTCTTATTACAAATTAGGA - 26940
 - D L P K E I T V A T S R T L S Y Y K L G
 - T C Q K R S L W L H H E R F L I T N * E
 - P A K R D H C G Y I T N A F L L Q I R S
 26941 - GCGTCGCAGCGTGTAGGCACTGATTTCAGGTTTTGCTGCATACAACCGCTACCGTATTGGA - 27000
 - A S Q R V G T D S G F A A Y N R Y R I G
 - R R S V * A L I Q V L L H T T A T V L E
 - V A A C R H * F R F C C I Q P L P Y W K
 27001 - AACTATAAATTAAATACAGACCACGCCGGTAGCAACGACAATATTGCTTTGCTAGTACAG - 27060
 - N Y K L N T D H A G S N D N I A L L V Q
 - T I N * I Q T T P V A T T I L L C * Y S
 - L * I K Y R P R R * Q R Q Y C F A S T V
 27061 - TAAGTGACAACAGATGTTTCATCTTGTTGACTTCCAGGTTACAATAGCAGAGATATTGAT - 27120
 - * V T T D V S S C * L P G Y N S R D I D
 - K * Q Q M F H L V D F Q V T I A E I L I
 - S D N R C F I L L T S R L Q * Q R Y * L
 27121 - TATCATTATGAGGACTTTCAGGATTGCTATTTGGAATCTTGACGTTATAATAAGTTCAAT - 27180
 - Y H Y E D F Q D C Y L E S * R Y N K F N
 - I I M R T F R I A I W N L D V I I S S I
 - S L * G L S G L L F G I L T L * * V Q *
 27181 - AGTGAGACAATTATTTAAGCCTCTAACTAAGAAGAATTATTCGGAGTTAGATGATGAAGA - 27240
 - S E T I I * A S N * E E L F G V R * * R
 - V R Q L F K P L T K K N Y S E L D D E E
 - * D N Y L S L * L R R I I R S * M M K N
 27241 - ACCTATGGAGTTAGATTATCCATAAAACGAACATGAAAATTATTCTCTTCCTGACATTGA - 27300
 - T Y G V R L S I K R T * K L F S S * H *
 - P M E L D Y P * N E H E N Y S L P D I D
 - L W S * I I H K T N M K I I L F T L I
 27301 - TTGTATTTACATCTTGCGAGCTATATCACTATCAGGAGTGTGTTAGAGGTACGACTGTAC - 27360
 - L Y L H L A S Y I T I R S V L E V R L Y
 - C I Y I L R A I S L S G V C * R Y D C T
 - V F T S C E L Y H Y Q E C V R G T T V L
 27361 - TACTAAAAGAACCTTGCCCATCAGGAACATACGAGGGCAATTCACCATTTCACCCTCTTG - 27420
 - Y * K N L A H Q E H T R A I H H F T L L
 - T K R T L P I R N I R G Q F T I S P S C
 - L K E P C P S G T Y E G N S P F H P L A
 27421 - CTGACAATAAATTTGCACTAACTTGCACTAGCACACACTTTGCTTTTGCTGTGCTGACG - 27480
 - L T I N L H * L A L A H T L L L L V L T
 - * Q * I C T N L H * H T L C F C L C * R
 - D N K F A L T C T S T H F A F A C A D G
 27481 - GTACTCGACATACCTATCAGCTGCGTGCAAGATCAGTTTCACCAAACTTTTCATCAGAC - 27540
 - V L D I P I S C V Q D Q F H Q N F S S D
 - Y S T Y L S A A C K I S F T K T F H Q T
 - T R H T Y Q L R A R S V S P K L F I R Q
 27541 - AAGAGGAGGTTCAACAAGAGCTCTACTCGCCACTTTTTCTCATTTGTTGCTGCTCTAGTAT - 27600
 - K R R F N K S S T R H F F S L L L L * Y
 - R G G S T R A L L A T F S H C C S S I
 - E E V Q Q E L Y S P L F L I V A A L V F
 27601 - TTTTAATACTTTGCTTCACCATTAAGAGAAAGACAGAATGAATGAGCTCACTTTAATTGA - 27660
 - F * Y F A S P L R E R Q N E * A H F N *
 - F N T L L H H * E K D R M N E L T L I D
 - L I L C F T I K R K T E * M S S L * L T
 27661 - CTTCTATTTGTGCTTTTTAGCCTTTCTGCTATTCCTTGTTTAATAATGCTTATTATATT - 27720
 - L L F V L F S L S A I P C F N N A Y Y I
 - F Y L C F L A F L L F L V L I M L I I F
 - S I C A F * P F C Y S L F * * C L L Y F

FIG. 11 Con't

27721 - TTGGTTTTTCACTCGAAATCCAGGATCTAGAAGAACCTTGTACCAAAGTCTAAACGAACAT - 27780
 - L V F T R N P G S R R T L Y Q S L N E H
 - W F S L E I Q D L E E P C T K V * T N M
 - G F H S K S R I * K N L V P K S K R T *
 27781 - GAAACTTCTCATTGTTTTGACTTGTATTTCTCTATGCAGTTGCATATGCACTGTAGTACA - 27840
 - E T S H C F D L Y F S M Q L H M H C S T
 - K L L I V L T C I S L C S C I C T V V Q
 - N F S L F * L V F L Y A V A Y A L * Y S
 27841 - GCGCTGTGCATCTAATAAACCTCATGTGCTTGAAGATCCTTGTAAAGGTACAACACTAGGG - 27900
 - A L C I * * T S C A * R S L * G T T L G
 - R C A S N K P H V L E D P C K V Q H * G
 - A V H L I N L M C L K I L V R Y N T R G
 27901 - GTAATACTTATAGCACTGCTTGGCTTTGTGCTCTAGGAAAGGTTTTACCTTTTCATAGAT - 27960
 - V I L I A L L G F V L * E R F Y L F I D
 - * Y L * H C L A L C S R K G F T F S * M
 - N T Y S T A W L C A L G K V L P F H R W
 27961 - GGCACACTATGGTTCAAACATGCACACCTAATGTTACTATCAACTGTCAAGATCCAGCTG - 28020
 - G T L W F K H A H L M L L S T V K I Q L
 - A H Y G S N M H T * C Y Y Q L S R S S W
 - H T M V Q T C T P N V T I N C Q D P A G
 28021 - GTGGTGCCTTATAGCTAGGTGTTGGTACCTTCATGAAGGTCACCAAAGTCTGCATTTA - 28080
 - V V R L * L G V G T F M K V T K L L H L
 - W C A Y S * V L V P S * R S P N C C I *
 - G A L I A R C W Y L H E G H Q T A A F R
 28081 - GAGACGTACTTGTGTTTTAAATAAACGAACAAATTAATAATGTCTGATAATGGACCCCAA - 28140
 - E T Y L L F * I N E Q I K M S D N G P Q
 - R R T C C F K * T N K L K C L I M D P N
 - D V L V V L N K R T N * N V * * W T P I
 28141 - TCAAACCAACGTAGTGCCCCCGCATTACATTTGGTGGACCCACAGATTCAACTGACAAT - 28200
 - S N Q R S A P R I T F G G P T D S T D N
 - Q T N V V P P A L H L V D P Q I Q L T I
 - K P T * C P P H Y I W W T H R F N * Q *
 28201 - AACCAGAATGGAGGACGCAATGGGGCAAGGCCAAAACAGCGCCGACCCCAAGGTTTACCC - 28260
 - N Q N G G R N G A R P K Q R R P Q G L P
 - T R M E D A M G Q G Q N S A D P K V Y P
 - P E W R T Q W G K A K T A P T P R F T Q
 28261 - AATAACTGCGTCTTGGTTACAGCTCTCACTCAGCATGGCAAGGAGGAAGTTCATTC - 28320
 - N N T A S W F T A L T Q H G K E E L R F
 - I I L R L G S Q L S L S M A R R N L D S
 - * Y C V L V H S S H S A W Q G G T * I P
 28321 - CCTCGAGGCCAGGGCGTTCCAATCAACACCAATAGTGGTCCAGATGACCAAATTGGCTAC - 28380
 - P R G Q G V P I N T N S G P D D Q I G Y
 - L E A R A F Q S T P I V V Q M T K L A T
 - S R P G R S N Q H Q * W S R * P N W L L
 28381 - TACCGAAGAGCTACCCGACGAGTTCGTGGTGGTGACGGCAAATGAAAGAGCTCAGCCCC - 28440
 - Y R R A T R R V R G G D G K M K E L S P
 - T E E L P D E F V V V T A K * K S S A P
 - P K S Y P T S S W * R Q N E R A Q P Q
 28441 - AGATGGTACTTCTATTACCTAGGAAGTGGCCAGAAGCTTCACTTCCCTACGGCGCTAAC - 28500
 - R W Y F Y Y L G T G P E A S L P Y G A N
 - D G T S I T * E L A Q K L H F P T A L T
 - M V L L L P R N W P R S F T S L R R * Q
 28501 - AAAGAAGGCATCGTATGGGTTGCAACTGAGGGAGCCTTGAATACACCCAAAGACCACATT - 28560
 - K E G I V W V A T E G A L N T P K D H I
 - K K A S Y G L Q L R E P * I H P K T T L
 - R R H R M G C N * G S L E Y T Q R P H W

FIG. 11 Con't

28561 - GGCACCCGCAATCCTAATAACAATGCTGCCACCGTGCTACAACCTCCTCAAGGAACAACA - 28620
 - G T R N P N N N A A T V L Q L P Q G T T
 - A P A I L I T M L P P C Y N F L K E Q H
 - H P Q S * * Q C C H R A T T S S R N N I
 28621 - TTGCCAAAAGGCTTCTACGCAGAGGGAAGCAGAGGCGGCAGTCAAGCCTCTTCTCGCTCC - 28680
 - L P K G F Y A E G S R G G S Q A S S R S
 - C Q K A S T Q R E A E A A V K P L L A P
 - A K R L L R R G K Q R R Q S S L F S L L
 28681 - TCATCACGTAGTCGCGGTAATTCAAGAAATTCAACTCCTGGCAGCAGTAGGGGAAATTCT - 28740
 - S S R S R G N S R N S T P G S S R G N S
 - H H V V A V I Q E I Q L L A A V G E I L
 - I T * S R * F K K F N S W Q Q * G K F S
 28741 - CCTGCTCGAATGGCTAGCGGAGGTGGTGAAACTGCCCTCGCGCTATTGCTGCTAGACAGA - 28800
 - P A R M A S G G G E T A L A L L L L D R
 - L L E W L A E V V K L P S R Y C C * T D
 - C S N G * R R W * N C P R A I A A R Q I
 28801 - TTGAACCAGCTTGAGAGCAAAGTTTCTGGTAAAGGCCAACAACAAGGCCAAACTGTC - 28860
 - L N Q L E S K V S G K G Q Q Q Q G Q T V
 - * T S L R A K F L V K A N N N K A K L S
 - E P A * E Q S F W * R P T T T R P N C H
 28861 - ACTAAGAAATCTGCTGCTGAGGCATCTAAAAAGCCTCGCCAAAACGTACTGCCACAAAA - 28920
 - T K K S A A E A S K K P R Q K R T A T K
 - L R N L L L R H L K S L A K N V L P Q N
 - * E I C C * G I * K A S P K T Y C H K T
 28921 - CAGTACAACGTCACTCAAGCATTGGGAGACGTGGTCCAGAACAAACCCAAGGAAATTC - 28980
 - Q Y N V T Q A F G R R G P E Q T Q G N F
 - S T T S L K H L G D V V Q N K P K E I S
 - V Q R H S S I W E T W S R T N P R K F R
 28981 - GGGGACCAAGACCTAATCAGACAAGGAAGCTGATTACAAACATTGGCCGCAAATTCACAA - 29040
 - G D Q D L I R Q G T D Y K H W P Q I A Q
 - G T K T * S D K E L I T N I G R K L H N
 - G P R P N Q T R N * L Q T L A A N C T I
 29041 - TTTGCTCCAAGTGCTCTGCATTCTTTGGAATGTACGCATTGGCATGGAAGTCACACCT - 29100
 - F A P S A S A F F G M S R I G M E V T P
 - L L Q V P L H S L E C H A L A W K S H L
 - C S K C L C I L W N V T H W H G S H T F
 29101 - TCGGGAACATGGCTGACTTATCATGGAGCCATTAAATTGGATGACAAAGATCCACAATTC - 29160
 - S G T W L T Y H G A I K L D D K D P Q F
 - R E H G * L I M E P L N W M T K I H N S
 - G N M A D L S W S H * I G * Q R S T I Q
 29161 - AAAGACAACGTCATACTGCTGAACAAGCACATTGACGCATACAAAACATTCCCACCAACA - 29220
 - K D N V I L L N K H I D A Y K T F P P T
 - K T T S Y C * T S T L T H T K H S H Q Q
 - R Q R H T A E Q A H * R I Q N I P T N R
 29221 - GAGCCTAAAAAGGACAAAAAGAAAAGACTGATGAAGCTCAGCCTTTGCCGCAGAGACAA - 29280
 - E P K K D K K K K T D E A Q P L P Q R Q
 - S L K R T K R K R L M K L S L C R R D K
 - A * K G Q K E K D * * S S A F A A E T K
 29281 - AAGAAGCAGCCCACTGTGACTCTTCTTCTGCGGCTGACATGGATGATTTCTCCAGACAA - 29340
 - K K Q P T V T L L P A A D M D D F S R Q
 - R S S P L * L F F L R L T W M I S P D N
 - E A A H C D S S S C G * H G * F L Q T T
 29341 - CTTCAAAATTCATGAGTGGAGCTTCTGCTGATTCAACTCAGGCATAAACACTCATGATG - 29400
 - L Q N S M S G A S A D S T Q A * T L M M
 - F K I P * V E L L L I Q L R H K H S * *
 - S K F H E W S F C * F N S G I N T H D D

FIG. 11 Con't

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29401 - ACCACACAAGGCAGATGGGCTATGTAAACGTTTTTCGCAATTCCGTTTACGATACATAGTC - 29460
      - T T Q G R W A M * T F S Q F R L R Y I V
      - P H K A D G L C K R F R N S V Y D T * S
      - H T R Q M G Y V N V F A I P F T I H S L
29461 - TACTCTTGTGCAGAATGAATTCTCGTAACTAAACAGCACAAAGTAGGTTTAGTTAACTTTA - 29520
      - Y S C A E * I L V T K Q H K * V * L T L
      - T L V Q N E F S * L N S T S R F S * L *
      - L L C R M N S R N * T A Q V G L V N F N
29521 - ATCTCACATAGCAATCTTTAATCAATGTGTAAACATTAGGGAGGACTTGAAAGAGCCACCA - 29580
      - I S H S N L * S M C N I R E D L K E P P
      - S H I A I F N Q C V T L G R T * K S H H
      - L T * Q S L I N V * H * G G L E R A T T
29581 - CATTTTCATCGAGGCCACGCGGAGTACGATCGAGGGTACAGTGAATAATGCTAGGGAGAG - 29640
      - H F H R G H A E Y D R G Y S E * C * G E
      - I F I E A T R S T I E G T V N N A R E S
      - F S S R P R G V R S R V Q * I M L G R A
29641 - CTGCCTATATGGAAGAGCCCTAATGTGTAAAATTAATTTTAGTAGTGCTATCCCCATGTG - 29700
      - L P I W K S P N V * N * F * * C Y P H V
      - C L Y G R A L M C K I N F S S A I P M *
      - A Y M E E P * C V K L I L V V L S P C D
29701 - ATTTTAATAGCTTCTTAGGAGAATGACAAAAAAAAAAAAAAAAA - 29742
      - I L I A S * E N D K K K K K X
      - F * * L L R R M T K K K K X
      - F N S F L G E * Q K K K K X

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FIG. 11 Con't

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1 - TTTTTTTTTTTTTTTTGTCACTCTCCTAAGAAGCTATTAAAATCACATGGGGATAGCACTA - 60
- F F F F F V I L L R S Y * N H M G I A L
- F F F F L S F S * E A I K I T W G * H Y
- F F F F C H S P K K L L K S H G D S T T
61 - CTAAAATTAATTTTACACATTAGGGCTCTTCCATATAGGCAGCTCTCCCTAGCATTATTC - 120
- L K L I L H I R A L P Y R Q L S L A L F
- * N * F Y T L G L F H I G S S P * H Y S
- K I N F T H * G S S I * A A L P S I I H
121 - ACTGTACCCTCGATCGTACTCCGCGTGGCCTCGATGAAAATGTGGTGGCTCTTTCAAGTC - 180
- T V P S I V L R V A S M K M W W L F Q V
- L Y P R S Y S A W P R * K C G G S F K S
- C T L D R T P R G L D E N V V A L S S P
181 - CTCCCTAATGTTACACATTGATTAAAGATTGCTATGTGAGATTAAAGTTAACTAAACCTA - 240
- L P N V T H * L K I A M * D * S * L N L
- S L M L H I D * R L L C E I K V N * T Y
- P * C Y T L I K D C Y V R L K L T K P T
241 - CTTGTGCTGTTTGTAGTTACGAGAATTCATTCTGCACAAGAGTAGACTATGTATCGTAAACG - 300
- L V L F S Y E N S F C T R V D Y V S * T
- L C C L V T R I H S A Q E * T M Y R K R
- C A V * L R E F I L H K S R L C I V N G
301 - GAATTGCGAAAACGTTTACATAGCCCATCTGCCTTGTGTGGTCATCATGAGTGTATATGC - 360
- E L R K R L H S P S A L C G H H E C L C
- N C E N V Y I A H L P C V V I M S V Y A
- I A K T F T * P I C L V W S S * V F M P
361 - CTGAGTTGAATCAGCAGAAGCTCCACTCATGGAATTTTGAAGTTGTCTGGAGAAATCATC - 420
- L S * I S R S S T H G I L K L S G E I I
- * V E S A E A P L M E F * S C L E K S S
- E L N Q Q K L H S W N F E V V W R N H P
421 - CATGTCAGCCGCAGGAAGAAGAGTCACAGTGGGCTGCTTCTTTTGTCTCTGCGGCAAAGG - 480
- H V S R R K K S H S G L L L S L R Q R
- M S A A G R R V T V G C F F C L C G K G
- C Q P Q E E E S Q W A A S F V S A A K A
481 - CTGAGCTTCATCAGTCTTTTCTTTTGTCTTTTGTAGGCTCTGTTGGTGGGAATGTTTT - 540
- L S F I S L F L F V L F R L C W W E C F
- * A S S V F F F L S F L G S V G G N V L
- E L H Q S F S F C P F * A L L V G M F C
541 - GTATGCGTCAATGTGCTTGTTCAGCAGTATGACGTTGTCTTTGAATTGTGGATCTTTGTC - 600
- V C V N V L V Q Q Y D V V F E L W I F V
- Y A S M C L F S S M T L S L N C G S L S
- M R Q C A C S A V * R C L * I V D L C H
601 - ATCCAATTTAATGGCTCCATGATAAGTCAGCCATGTTCCCGAAGGTGTGACTTCCATGCC - 660
- I Q F N G S M I S Q P C S R R C D F H A
- S N L M A P * * V S H V P E G V T S M P
- P I * W L H D K S A M F P K V * L P C Q
661 - AATGCGTGACATTCCAAAGAATGCAGAGGCACTTGGAGCAAATTGTGCAATTTGCGGCCA - 720
- N A * H S K E C R G T W S K L C N L R P
- M R D I P K N A E A L G A N C A I C G Q
- C V T F Q R M Q R H L E Q I V Q F A A N
721 - ATGTTTGTAAATCAGTTCCTTGTCTGATTAGGTCTTGGTCCCCGAAATTTCTTGGGTTTG - 780
- M F V I S S L S D * V L V P E I S L G L
- C L * S V P C L I R S W S P K F P W V C
- V C N Q F L V * L G L G P R N F L G F V
781 - TTCTGGACCACGTCTCCCAAATGCTTGAGTGACGTTGTACTGTTTTGTGGCAGTACGTTT - 840
- F W T T S P K C L S D V V L F C G S T F
- S G P R L P N A * V T L Y C F V A V R F
- L D H V S Q M L E * R C T V L W Q Y V F

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FIG. 12

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841 - TTGGCGAGGCTTTTTAGATGCCTCAGCAGCAGATTTCTTAGTGACAGTTTGGCCTTGTTG - 900
    - L A R L F R C L S S R F L S D S L A L L
    - W R G F L D A S A A D F L V T V W P C C
    - G E A F * M P Q Q Q I S * * Q F G L V V
901 - TTGTTGGCCTTTACCAGAACTTTGCTCTCAAGCTGGTTCAATCTGTCTAGCAGCAATAG - 960
    - L L A F T R N F A L K L V Q S V * Q Q *
    - C W P L P E T L L S S W F N L S S S N S
    - V G L Y Q K L C S Q A G S I C L A A I A
961 - CGCGAGGGCAGTTTCACCACCTCCGCTAGCCATTCGAGCAGGAGAATTTCCCCTACTGCT - 1020
    - R E G S F T T S A S H S S R R I S P T A
    - A R A V S P P P L A I R A G E F P L L L
    - R G Q F H H L R * P F E Q E N F P Y C C
1021 - GCCAGGAGTTGAATTTCTTGAATTACCGCGACTACGTGATGAGGAGCGAGAAGAGGCTTG - 1080
    - A R S * I S * I T A T T * * G A R R G L
    - P G V E F L E L P R L R D E E R E E A *
    - Q E L N F L N Y R D Y V M R S E K R L D
1081 - ACTGCCGCTCTGCTTCCCTCTGCGTAGAAGCCTTTTGGCAATGTTGTTCTTGAGGAAG - 1140
    - T A A S A S L C V E A F W Q C C S L R K
    - L P P L L P S A * K P F G N V V P * G S
    - C R L C F P L R R S R L A M L F L E E V
1141 - TTGTAGCACGGTGGCAGCATTGTTATTAGGATTGCGGGTGCCAATGTGGTCTTTGGGTGT - 1200
    - L * H G G S I V I R I A G A N V V F G C
    - C S T V A A L L L G L R V P M W S L G V
    - V A R W Q H C Y * D C G C Q C G L W V Y
1201 - ATTC AAGGCTCCCTCAGTTGCAACCCATACGATGCCTTCTTTGTTAGCGCCGTAGGGAAG - 1260
    - I Q G S L S C N P Y D A F F V S A V G K
    - F K A P S V A T H T M P S L L A P * G S
    - S R L P Q L Q P I R C L L C * R R E V
1261 - TGAAGCTTCTGGGCCAGTTCCTAGGTAATAGAATACCATCTGGGGCTGAGCTCTTTCAT - 1320
    - * S F W A S S * V I E V P S G A E L F H
    - E A S G P V P R * * K Y H L G L S S F I
    - K L L G Q F L G N R S T I W G * A L S F
1321 - TTTGCCGTCAACCACGAACCTCGTCGGGTAGCTCTTCGGTAGTAGCCAATTTGGTCATC - 1380
    - F A V T T T N S S G S S S V V A N L V I
    - L P S P P R T R R V A L R * * P I W S S
    - C R H H H E L V G * L F G S S Q F G H L
1381 - TGGACCACTATTGGTGTGATTGGAACGCCCTGGCCTCGAGGGAATCTAAGTTCTCTCCTT - 1440
    - W T T I G V D W N A L A S R E S K F L L
    - G P L L V L I G T P W P R G N L S S S L
    - D H Y W C * L E R P G L E G I * V P P C
1441 - GCCATGCTGAGTGAGAGCTGTGAACCAAGACGCAGTATTATTGGGTAAACCTTGGGGTTCG - 1500
    - A M L S E S C E P R R S I I G * T L G S
    - P C * V R A V N Q D A V L L G K P W G R
    - H A E * E L * T K T Q Y Y W V N L G V G
1501 - GCGCTGTTTTGGCCTTGCCCCATTGCGTCTCCATTCTGGTTATTGTCAGTTGAATCTGT - 1560
    - A L F W P C P I A S S I L V I V S * I C
    - R C F G L A P L R P P F W L L S V E S V
    - A V L A L P H C V L H S G Y C Q L N L W
1561 - GGGTCCACCAAATGTAATGCGGGGGGCACTACGTTGGTTTGATTGGGGTCCATTATCAGA - 1620
    - G S T K C N A G G T T L V * L G S I I R
    - G P P N V M R G A L R W F D W G P L S D
    - V H Q M * C G G H Y V G L I G V H Y Q T
1621 - CATTTTAATTTGTTTCGTTTATTTAAAACAACAAGTACGTCTCTAAATGCAGCAGTTTGGT - 1680
    - H F N L F V Y L K Q Q V R L * M Q Q F G
    - I L I C S F I * N N K Y V S K C S S L V
    - F * F V R L F K T T S T S L N A A V W *

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FIG. 12 Con't

1681 - GACCTTCATGAAGGTACCAACACCTAGCTATAAGCGCACCACCAGCTGGATCTTGACAGT - 1740
 - D L H E G T N T * L * A H H Q L D L D S
 - T F M K V P T P S Y K R T T S W I L T V
 - P S * R Y Q H L A I S A P P A G S * Q L
 1741 - TGATAGTAACATTAGGTGTGCATGTTTGAACCATAGTGTGCCATCTATGAAAAGGTAAAA - 1800
 - * * * H * V C M F E P * C A I Y E K V K
 - D S N I R C A C L N H S V P S M K R * N
 - I V T L G V H V * T I V C H L * K G K T
 1801 - CCTTTCCTAGAGCACAAAGCCAAGCAGTGCTATAAGTATTACCCCTAGTGTGTACCTTA - 1860
 - P F L E H K A K Q C Y K Y Y P * C C T L
 - L S * S T K P S S A I S I T P S V V P Y
 - F P R A Q S Q A V L * V L P L V L Y L T
 1861 - CAAGGATCTTCAAGCACATGAGGTTTATTAGATGCACAGCGCTGTACTACAGTGCATATG - 1920
 - Q G S S S T * G L L D A Q R C T T V H M
 - K D L Q A H E V Y * M H S A V L Q C I C
 - R I F K H M R F I R C T A L Y Y S A Y A
 1921 - CAACTGCATAGAGAAATACAAGTCAAAACAATGAGAAGTTTCATGTTTCGTTTAGACTTTG - 1980
 - Q L H R E I Q V K T M R S F M F V * T L
 - N C I E K Y K S K Q * E V S C S F R L W
 - T A * R N T S Q N N E K F H V R L D F G
 1981 - GTACAAGTTTCTTCTAGATCCTGGATTTTCGAGTGAAAACCAAATATAATAAGCATTATT - 2040
 - V Q G S S R S W I S S E N Q N I I S I I
 - Y K V L L D P G F R V K T K I * * A L L
 - T R F F * I L D F E * K P K Y N K H Y *
 2041 - AAAACAAGGAATAGCAGAAAGGCTAAAAAGCACAAATAGAAGTCAATTAAAGTGAGCTCA - 2100
 - K T R N S R K A K K H K * K S I K V S S
 - K Q G I A E R L K S T N R S Q L K * A H
 - N K E * Q K G * K A Q I E V N * S E L I
 2101 - TTCATTCTGTCTTTCTCTTAATGGTGAAGCAAAGTATTAAAAATACTAGAGCAGCAACAA - 2160
 - F I L S F S * W * S K V L K I L E Q Q Q
 - S F C L S L N G E A K Y * K Y * S S N N
 - H S V F L L M V K Q S I K N T R A A T M
 2161 - TGAGAAAAAGTGGCGAGTAGAGCTCTTGTGTAACCTCCTCTGTCTGATGAAAAGTTTGTG - 2220
 - * E K V A S R A L V E P P L V * * K V L
 - E K K W R V E L L L N L L L S D E K F W
 - R K S G E * S S C * T S S C L M K S F G
 2221 - GTGAAACTGATCTTGCACGCAGCTGATAGGTATGTGAGTACCGTCAGCACAAAGCAAAAG - 2280
 - V K L I L H A A D R Y V E Y R Q H K Q K
 - * N * S C T Q L I G M S S T V S T S K S
 - E T D L A R S * * V C R V P S A Q A K A
 2281 - CAAAGTGTGTGCTAGTGCAAGTTAGTGCAAATTTATTGTGAGCAAGAGGGTGAATGGTG - 2340
 - Q S V C * C K L V Q I Y C Q Q E G E M V
 - K V C A S A S * C K F I V S K R V K W *
 - K C V L V Q V S A N L L S A R G * N G E
 2341 - AATTGCCCTCGTATGTTTCTGATGGGCAAGGTTCTTTTAGTAGTACAGTCGTACCTCTAA - 2400
 - N C P R M F L M G K V L L V V Q S Y L *
 - I A L V C S * W A R F F * * Y S R T S N
 - L P S Y V P D G Q G S F S S T V V P L T
 2401 - CACACTCCTGATAGTGATATAGCTCGCAAGATGTAAATACAATCAATGTCAGGAAGAGAA - 2460
 - H T P D S D I A R K M * I Q S M S G R E
 - T L L I V I * L A R C K Y N Q C Q E E N
 - H S * * * Y S S Q D V N T I N V R K R I
 2461 - TAATTTTCATGTTTCGTTTATGGATAATCTAACTCCATAGGTTCTTCATCATCTAACTCC - 2520
 - * F S C S F Y G * S N S I G S S S S N S
 - N F H V R F M D N L T P * V L H H L T P
 - I F M F V L W I I * L H R F F I I * L R

FIG. 12 Con't

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2521 - GAATAATTCTTCTTAGTTAGAGGCTTAAATAATTGTCTCACTATTGAACTTATTATAACG - 2580
- E * F F L V R G L N N C L T I E L I I T
- N N S S * L E A * I I V S L L N L L * R
- I I L L S * R L K * L S H Y * T Y Y N V
2581 - TCAAGATTCCAAATAGCAATCCTGAAAGTCCTCATAATGATAATCAATATCTCTGCTATT - 2640
- S R F Q I A I L K V L I M I I N I S A I
- Q D S K * Q S * K S S * * * S I S L L L
- K I P N S N P E S P H N D N Q Y L C Y C
2641 - GTAACCTGGAAGTCAACAAGATGAAACATCTGTTGTCACTTACTGTACTAGCAAAGCAAT - 2700
- V T W K S T R * N I C C H L L Y * Q S N
- * P G S Q Q D E T S V V T Y C T S K A I
- N L E V N K M K H L L S L T V L A K Q Y
2701 - ATTGTCGTTGCTACCGGCGTGGTCTGTATTTAATTTATAGTTTCCAATACGGTAGCGGTT - 2760
- I V V A T G V V C I * F I V S N T V A V
- L S L L P A W S V F N L * F P I R * R L
- C R C Y R R G L Y L I Y S F Q Y G S G C
2761 - GTATGCAGCAAAACCTGAATCAGTGCCTACACGCTGCGACGCTCCTAATTTGTAATAAGA - 2820
- V C S K T * I S A Y T L R R S * F V I R
- Y A A K P E S V P T R C D A P N L * * E
- M Q Q N L N Q C L H A A T L L I C N K K
2821 - AAGCGTTCGTGATGTAGCCACAGTACTCTTTTGGCAGGTCCTTAATGTCACAGCGCCC - 2880
- K R S * C S H S D L F W Q V L N V T A P
- S V R D V A T V I S F G R S L M S Q R P
- A F V M * P Q * S L L A G P * C H S A L
2881 - TAGGGAGTGTCCGGCCATTGCAAGTGACCACGAATGATCACAGCACCAATGACAAGTTC - 2940
- * G V S G H S Q V T T N D H S T N D K F
- R E C P A I R K * P R M I T A P M T S S
- G S V R P F A S D H E * S Q H Q * Q V H
2941 - ACTTTCCATGAGCGGTCTGGTCACAATTGTCCCCCGGAGAGGCACATTGAGAAGAATGTT - 3000
- T F H E R S G H N C P P E R H I E K N V
- L S M S G L V T I V P R R G T L R R M F
- F P * A V W S Q L S P G E A H * E E C L
3001 - TGTTTCTGGGTTGAATGACCACATTGAGCGGTACGAGCAAACAGCCTGAAGGAAGCAAC - 3060
- C F W V E * P H * A G T S K Q P E G S N
- V S G L N D H I E R V R A N S L K E A T
- F L G * M T T L S G Y E Q T A * R K Q R
3061 - GAAGTAGCTAAGCCACATCAAGCCTACAATACAAGCCATTGCAATCGCAATCCCGCCAGT - 3120
- E V A K P H Q A Y N T S H C N R N P A S
- K * L S H I K P T I Q A I A I A I P P V
- S S * A T S S L Q Y K P L Q S Q S R Q S
3121 - CACCCAATTAATTCTGTAGACAACAGCAAGCACAAAACAAGCAAGTGTTACTGGCCACAA - 3180
- H P I N S V D N S K H K T S K C Y W P Q
- T Q L I L * T T A S T K Q A S V T G H K
- P N * F C R Q Q Q A Q N K Q V L L A T R
3181 - GAGCCAGAGGAAAAACAAGCTTTATTATGTACAAAAACCTGTTCCGATTAGAATAGGCAAA - 3240
- E P E E N K L Y Y V Q K P V P I R I G K
- S Q R K T S F I M Y K N L F R L E * A N
- A R G K Q A L L C T K T C S D * N R Q I
3241 - TTGTAGTAACATAATCCAGGCTAGGAATAGGAAACCTATTACTAGGTTCCATTGTTCCAG - 3300
- L * * H N P G * E * E T Y Y * V P L F Q
- C S N I I Q A R N R K P I T R F H C S R
- V V T * S R L G I G N L L L G S I V P G
3301 - GAGTTGTTTAAGCTCCTCAACGGTAATAGTACCGTTGTCTGCCATGATAAGCAATGTAA - 3360
- E L F K L L N G N S T V V C H D K Q C *
- S C L S S S T V I V P L S A M I S N V K
- V V * A P Q R * * Y R C L P * * A M L K

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FIG. 12 Con't

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3361 - AGTTCCAAACAGAATAATAATAATAGTTAGTTTCGTTTACGACCAGAAGATCAGGAACCTCCT - 3420
      - S S K Q N N N N S * F V * T R R S G T P
      - V P N R I I I I V S S F R P E D Q E L L
      - F Q T E * * * * L V R L D Q K I R N S F
3421 - TCAGAAGAGTTTCAGATTTTTTAACACGCGAGTAGACGTAAACCGTTGGTTTTACTAAACTC - 3480
      - S E E F R F L T R E * T * T V G F T K L
      - Q K S S D F * H A S R R K P L V L L N S
      - R R V Q I F N T R V D V N R W F Y * T H
3481 - ACGTTAACAATATTGCAGCAGTACGCACACAATCGAAGCGCAGTAAGGATGGCTAGTGTG - 3540
      - T L T I L Q Q Y A H N R S A V R M A S V
      - R * Q Y C S S T H T I E A Q * G W L V *
      - V N N I A A V R T Q S K R S K D G * C D
3541 - ACTAGCAAGAATACCACGAAAGCAAGAAAAAGAAGTACGCTATTAACCTATTAACGTACCT - 3600
      - T S K N T T K A R K R S T L L T I N V P
      - L A R I P R K Q E K E V R Y * L L T Y L
      - * Q E Y H E S K K K K Y A I N Y * R T C
3601 - GTTTCCTTCCGAAACGAATGAGTACATAAGTTTCGTA C T C A C T T T C T T G T G C T T A C A A G G C - 3660
      - V S S E T N E Y I S S Y S L S C A Y K G
      - F L P K R M S T * V R T H F L V L T K A
      - F F R N E * V H K F V L T F L C L Q R H
3661 - ACGCTAGTAGTCGTCGTCGCTCATCATAAATGGATCCATTGCTGGATTAGCAACTCCT - 3720
      - T L V V V V G S S * I G S I A G L A T P
      - R * * S S S A H H K L D P L L D * Q L L
      - A S S R R R L I I N W I H C W I S N S *
3721 - GAAGAGCCGTCGATTGTGTGTATTTGCACATTCGGTGGGTCTTTAACAAGCTTGTTAAAG - 3780
      - E E P S I V C I C T F G G S L T S L L K
      - K S R R L C V F A H S V G L * Q A C * R
      - R A V D C V Y L H I R W V F N K L V K D
3781 - ATGAAGAATGTAGCATTTTCAATACCACTGTCTGTAGTAATTTGTGTAGACTCAAGCTGG - 3840
      - M K N V A F S I P V S V V I C V D S S W
      - * R M * H F Q Y Q C L * * F V * T Q A G
      - E E C S I F N T S V C S N L C R L K L V
3841 - TAGTAAACTTCGGTGAAATAGCCATGTACAACGACATAGTCTTTAACACCTGAGTGCCTA - 3900
      - * * T S V K * P C T T T * S L T P E C L
      - S K L R * N S H V Q R H S L * H L S A Y
      - V N F G E I A M Y N D I V F N T * V P I
3901 - TCCTCAGAATAACCACCAATTTGGTAGTCTTCTTTGAGTTTGGTGTGAAATGCCGTCA - 3960
      - S S E * P P I W * S S L S F G V E M P S
      - P Q N N H Q F G S L L * V L V L K C R H
      - L R I T T N L V V F F E F W C * N A V T
3961 - CCTTCAGTAACGACAATTGTATCTGTGACACTGTTATATGGTATACAGTAGTCATAGTTA - 4020
      - P S V T T I V S V T L L Y G I Q * S * L
      - L Q * R Q L Y L * H C Y M V Y S S H S Y
      - F S N D N C I C D T V I W Y T V V I V M
4021 - TGTGTGTGCCAGCAAACAAAGTAGTTGGCATCATAAAGTAATGGGTTCTTGGATTTGCAC - 4080
      - C V C Q Q T K * L A S * S N G F L D L H
      - V C A S K Q S S W H K V M G S W I C T
      - C V P A N K V V G I I K * W V L G F A L
4081 - TTCCAACAAAGCCAACATCTCATAATAATTCTACATGCGTTGATGCATTGTAGAAAATAT - 4140
      - F Q Q S Q H L I I I L H A L M H C R K Y
      - S N K A N I S * * F Y M R * C I V E N I
      - P T K P T S H N N S T C V D A L * K I Y
4141 - ATCAAGGCATAGAGGTACAAAAATTGCGCCTCCTTACCTGCAGCGACAAGCAAAAGATGT - 4200
      - I K A * R Y K N C A S L P A A T S K R C
      - S R H R G T K I A P P Y L Q R Q A K D V
      - Q G I E V Q K L R L L T C S D K Q K M *

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FIG. 12 Con't

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4201 - GAATAGATGGTAACAAATAGCAGCAGTAAATTGCAAATGAACTGGAAGCCCTTATAAAGG - 4260
      - E * M V T N S S S K L Q M N W K P L * R
      - N R W * Q I A A V N C K * T G S P Y K G
      - I D G N K * Q Q * I A N E L E A L I K G
4261 - GCTAGCTGCCATCTTTTATTGAGCGCAATTATTTTGGTAGCGCTCTGAAAAACAGCAAGA - 4320
      - A S C H L L L S A I I L V A L * K T A R
      - L A A I F Y * A Q L F W * R S E K Q Q E
      - * L P S F I E R N Y F G S A L K N S K K
4321 - AATGCAACGCCAATAACAAGCCATCCGAAAGGGAGTGAGGCTTGTAGCGGTATCGTTGCT - 4380
      - N A T P I T S H P K G S E A C S G I V A
      - M Q R Q * Q A I R K G V R L V A V S L L
      - C N A N N K P S E R E * G L * R Y R C C
4381 - GTAGCATGAACAGTACTTGCAGGAGAAGCATTGTCAATTTTTACTGGCTGTGCAGTAATT - 4440
      - V A * T V L A G E A L S I F T G C A V I
      - * H E Q Y L Q E K H C Q F L L A V Q * L
      - S M N S T C R R S I V N F Y W L C S N *
4441 - GATCCAAGAGTAAAAAATCTCATAAACAAATCCATAAGTTTCGTTTATGTGTAATGTAATT - 4500
      - D P R V K N L I N K S I S S F M C N V I
      - I Q E * K I S * T N P * V R L C V M * F
      - S K S K K S H K Q I H K F V Y V * C N L
4501 - TGACACCCTTGAGAACTGGCTCAGAGTCATCCTCATCAAACCTGCAGCAAGAACCACAAG - 4560
      - * H P * E L A Q S H P H Q T C S K N H K
      - D T L E N W L R V I L I K L A A R T T R
      - T P L R T G S E S S S S N L Q Q E P Q E
4561 - AGCATGCACCCTTGAGGCAACTGCAACAACACTAGTCATGCAACAAAGCAAGATTGTAACCA - 4620
      - S M H P * G N C N N * S C N K A R L * P
      - A C T L E A T A T T S H A T K Q D C N H
      - H A P L R Q L Q Q L V M Q Q S K I V T M
4621 - TGACGATGGCAATTAGTCCAGCAATGAAGCCGAGCCAAACATACCAAGGCCATTTAATAT - 4680
      - * R W Q L V Q Q * S R A K H T K A I * Y
      - D D G N * S S N E A E P N I P R P F N I
      - T M A I S P A M K P S Q T Y Q G H L I Y
4681 - ATTGCTCATATTTTCCCAATTCTTGAAGGTCAATGAGTGATTCATTTAAATTTTACGGA - 4740
      - I A H I F P I L E G Q * V I H L N F * R
      - L L I F S Q F L K V N E * F I * I F S D
      - C S Y F P N S * R S M S D S F K F L A T
4741 - CCTCATTGAGGCGGTCAATTTCTTTTGAATGTTGACGACAGAAGCGTTAATGCCTGAAA - 4800
      - P H * G G Q F L F E C * R Q K R * C L K
      - L I E A V N F F L N V D D R S V N A * N
      - S L R R S I S F * M L T T E A L M P E M
4801 - TGTCGCCAAGATCAACATCTGGTGATGTATGATTTTTGAAGTACTTGTCCAGCTCTTCTT - 4860
      - C R Q D Q H L V M Y D F * S T C P A L L
      - V A K I N I W * C M I F E V L V Q L F F
      - S P R S T S G D V * F L K Y L S S S S L
4861 - TGAATGAGTCAAGCTCAGGTTGCAGAGGATCATAAACTGTGTTGTTAATGATGCCAATAA - 4920
      - * M S Q A Q V A E D H K L C C * * C Q *
      - E * V K L R L Q R I I N C V V N D A N N
      - N E S S S G C R G S * T V L L M M P I T
4921 - CGACATCACAATTTCTTGAGACAAATGTATTGTCTGTAGTAATTATTTGTGGAGAAAAAGA - 4980
      - R H H N F L R Q M Y C L * * L F V E K R
      - D I T I S * D K C I V C S N Y L W R K E
      - T S Q F P E T N V L S V V I I C G E K K
4981 - AGTTCTCTGTGTAATAAACCAAGAAGTGCCATTAAACACAAAAACACCTTCACGAGGGA - 5040
      - S S S V * * T K K C H * T Q K H L H E G
      - V P L C N K P R S A I K H K N T F T R E
      - F L C V I N Q E V P L N T K T P S R G K

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FIG. 12 Con't

5041 - AGTATGCTTTGCCTTCATGACAAATTGCTGGCGCTGTGGTGAAGTTCCTCTCCTGGGATG - 5100
 - S M L C L H D K L L A L W * S S S P G M
 - V C F A F M T N C W R C G E V P L L G W
 - Y A L P S * Q I A G A V V K F L S W D G
 5101 - GCACATACGTGACATGTAGGAAGACAACACCATGCGGGGCTGCTTGTGGGAAGGACATAA - 5160
 - A H T * H V G R Q H H A G L L V G R T *
 - H I R D M * E D N T M R G C L W E G H K
 - T Y V T C R K T T P C G A A C G K D I R
 5161 - GGTGGTAGCCCTTTCCACAAAAGTCAACTCTTTTGTATTGTCCAAGAACACACTCAGACA - 5220
 - G G S P F H K S Q L F L I V Q E H T Q T
 - V V A L S T K V N S F * L S K N T L R H
 - W * P F P Q K S T L F D C P R T H S D I
 5221 - TTTTAGTAGCAGCAAGATTAGCAGAAGCCCTGATTTCAGCAGCCCTGATTAGTTGTTGTG - 5280
 - F * * Q Q D * Q K P * F Q Q P * L V V V
 - F S S S K I S R S P D F S S P D * L L C
 - L V A A R L A E A L I S A A L I S C C V
 5281 - TTACATAGGTTTGAAGGCTTTGAAGTCTGCCTGTAATTAACCTGTCAATTTGTACCTCCG - 5340
 - L H R F E G F E V C L * L T C Q F V P P
 - Y I G L K A L K S A C N * P V N L Y L R
 - T * V * R L * S L P V I N L S I C T S A
 5341 - CCTCGACTTTTATCAAGTCGCGAAAGGATATCATTTAGCACACTTGAAATTGCACCAAAAT - 5400
 - P R L Y Q V A K G Y H L A H L K L H Q N
 - L D F I K S R K D I I * H T * N C T K I
 - S T L S S R E R I S F S T L E I A P K L
 5401 - TAGAGCTAAGTTGTTTAACAAGTGTGTTTAATGCTTGAGCATTCTGGTTAACAACCTCTT - 5460
 - * S * V V * Q V C L M L E H S G * Q R L
 - R A K L F N K C V * C L S I L V N N V L
 - E L S C L T S V F N A * A F W L T T S C
 5461 - GCAGCTTGCCCAATGCAGTTGATGTTGTTGTAAGTGATTCTTGAATTTGCAATATCGCCT - 5520
 - A A C P M Q L M L * V I L E F D * S P
 - Q L A Q C S * C C C K * F L N L T N R L
 - S L P N A V D V V V S D S * I * L I A L
 5521 - TGTTAAATTGGTTGGCGATTGTTTTTGGTTCTCATAGAGAACATTTTGGGTAACCTCAA - 5580
 - C * I G W R F V F G S H R E H F G * L Q
 - V K L V G D L F L V L I E N I L G N S N
 - L N W L A I C F W F S * R T F W V T P M
 5581 - TGCCATTGAACCTATATGCCATTGTCATAGCAAAAGGTATTTGAAGAGCAGCGCCAGCAC - 5640
 - C H * T Y M P F A * Q K V F E E Q R Q H
 - A I E P I C H L H S K R Y L K S S A S T
 - P L N L Y A I C I A K G I * R A A P A P
 5641 - CAAATGTCCATCCAGCAGTGGCAGTACCACTAAGTAGAGCAGCAGTGTAGGCAGCAATCA - 5700
 - Q M S I Q Q W Q Y H * L E Q Q C R Q Q S
 - K C P S S S G S T T N * S S S V G S N H
 - N V H P A V A V P L T R A A V * A A I I
 5701 - TATCATCAGTGAGCAGAGGTGGCAACACTGTAAGTCCATTGAACTTCTGCGCACAAATGA - 5760
 - Y H Q * A E V A T L * V H * T S A H K *
 - I I S E Q R W Q H C K S I E L L R T N E
 - S S V S R G G N T V S P L N F C A Q M R
 5761 - GATCTCTAGCATTAAATATCACCTAGGCATTGCGCATATTGCTTCATGAAGCCAGCATCAG - 5820
 - D L * H * Y H L G I R H I A S * S Q H Q
 - I S S I N I T * A F A I L L H E A S I S
 - S L A L I S P R H S P Y C F M K P A S A
 5821 - CGAGTGTACCTTATTAAAGAGCAAGTCCTCAATAAAAGACCTCTTAGTTGGCTTTAGAG - 5880
 - R V S P Y * R A S P Q * K T S * L A L E
 - E C H L I K E Q V L N K R P L S W L * R
 - S V T L L K S K S S I K D L L V G F R G

FIG. 12 Con't

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5881 - GGTCAGGTAATATTTTGTGAAAAATTAACCACCAAAATATTTCAAAGTTGGGGTTTTGT - 5940
- G Q V I F V K N * N H Q N I S K L G F C
- V R * Y L * K I ' K T T K I F Q S W G F V
- S G N I C E K L K P P K Y F K V G V L Y
5941 - ACATTTGTTTGAAGTTGAGCGAACACTTCACGTGTGTTGCGATCCTGTTTCAGCAGCAATAC - 6000
- T F V * L E R T L H V C C D P V Q Q Q Y
- H L F D L S E H F T C V A I L F S S N T
- I C L T * A N T S R V L R S C S A A I P
6001 - CTGAGAGTGCACGATTTAGTTGTGTGCAAAAGCTACCATATTGGAGAAGCAAATTAGCAC - 6060
- L R V H D L V V C K S Y H I G E A N * H
- * E C T I * L C A K A T I L E K Q I S T
- E S A R F S C V Q K L P Y W R S K L A H
6061 - ATTCAGTAGAATCTCCGAGATGTACATATTACAATCTACGGAGGTTTTAGCCATAGAAA - 6120
- I Q * N L R R C T Y Y N L R R F * P * K
- F S R I S A D V H I T I Y G G F S H R N
- S V E S P Q M Y I L Q S T E V L A I E T
6121 - CAGGCATTACTTCTGTAGTAATGCTAATTGAAAAGTTAGTAGGTATAGCAATGGTGTAT - 6180
- Q A L L L * * C * L K S * * V * Q W C Y
- R H Y F C S N A N * K V S R Y S N G V I
- G I T S V V M L I E K L V G I A M V L L
6181 - TAGAGTAAGCAATTGAACTATCAGCACCTAAAGACATAGTATAAGCCACAATAGATTTTT - 6240
- * S K Q L N Y Q H L K T * Y K P Q * I F
- R V S N * T I S T * R H S I S H N R F L
- E * A I E L S A P K D I V * A T I D F W
6241 - GGCTAGTACTACGTAATAAAGAACTGTATGGTAACTAGCACAAATGCCAGCTCCAATAG - 6300
- G * Y Y V I K K L Y G N * H K C Q L Q *
- A S T T * * R N C M V T S T N A S S N R
- L V L R N K E T V W * L A Q M P A P I G
6301 - GAATGTGCGACTCATAAGAAGTGTGCGATGCTCAGTCCTATAAGACAGCCTGCTTGAG - 6360
- E C R T H K K C R H A Q L L * D S L L E
- N V A L I R S V D M L S S Y K T A C L S
- M S H S * E V S T C S A P I R Q P A * V
6361 - TCTGGAATACATTGTTTCCAGTAGAATATATGCGCCAAGCTGGTGTGAGTTGATCTGCAT - 6420
- S G I H C F Q * N I C A K L V * V D L H
- L E Y I V S S R I Y A P S W C E L I C M
- W N T L F P V E Y M R Q A G V S * S A *
6421 - GAATTGCTGTAGAAACATCAGTGCAGTTAACATCTTGATATAGAACAGCAACTTCAGATG - 6480
- E L L * K H Q C S * H L D I E Q Q L Q M
- N C C R N I S A V N I L I * N S N F R *
- I A V E T S V Q L T S * Y R T A T S D E
6481 - AAGCATTTGTTCCAGGTGTAATTACACTTACACCCCCAAAAGAGCAAGGTGAAATGTCTA - 6540
- K H L F Q V * L H L H P Q K S K V K C L
- S I C S R C N Y T Y T P K R A R * N V *
- A F V P G V I T L T P P K E Q G E M S N
6541 - ATATTTTCAGATGTTTTAGGATCTCGAACGGAATCAGTGAAATCAGAAACATCACGGCCAA - 6600
- I F Q M F * D L E R N Q * N Q K H H G Q
- Y F R C F R I S N G I S E I R N I T A K
- I S D V L G S R T E S V K S E T S R P N
6601 - ATTGTTGAAATGGTTGAAATCTCTTTGAAGAAGGAGTTAACACACCAGTACCAGTGAGTC - 6660
- I V E M V E I S L K K E L T H Q Y Q * V
- L L K W L K S L * R R S * H T S T S E S
- C * N G * N L F E E G V N T P V P V S P
6661 - CATTAAAATTAATGACACACTGGTTCCTTAATAAGGTGAGTGATAATTTTGGTCCAC - 6720
- H * N * N * H T G S * * G Q W I I L V H
- I K I K I D T L V L N K V S G * F W S T
- L K L K L T H W F L I R S V D N F G P Q

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FIG. 12 Con't

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6721 - AAACCGTGGCCGGTGCATTAAAAAGTTCAAAAAGAAAGTACTACAACCTCTGTAAGGTTGGT - 6780
- K P W P V H L K V Q K K V L Q L C K V G
- N R G R C I * K F K R K Y Y N S V R L V
- T V A G A F K S S K E S T T T L * G W *
6781 - AGCCAATGCCAGTAGTGGTGTAAAAACCATAATCATTTAATGGCCAATAACAATTAAGAG - 6840
- S Q C Q * W C K N H N H L M A N N N * E
- A N A S S G V K T I I I * W P I T I K S
- P M P V V V * K P * S F N G Q * Q L R A
6841 - CAGGTGGGGTGCAAGGTTTGCCATCAGGGGAGAAAGGCACATTAGATATGTCTCTCTCAA - 6900
- Q V G C K V C H Q G R K A H * I C L S Q
- R W G A R F A I R G E R H I R Y V S L K
- G G V Q G L P S G E K G T L D M S L S K
6901 - AGGGCCTAAGCTTGCCATGTCTAAGATACCTATATTTATAATTATAATTACCAGTTGAAG - 6960
- R A * A C H V * D T Y I Y N Y N Y Q L K
- G P K L A M S K I P I F I I I I T S * S
- G L S L P C L R Y L Y L * L * L P V E V
6961 - TAGCATCAATGTTCTAGTATTCCAAGCAAGGACACAACCCATGAAATCATCTGGCAATT - 7020
- * H Q C S * Y S K Q G H N P * N H L A I
- S I N V P S I P S K D T T H E I I W Q F
- A S M F L V F Q A R T Q P M K S S G N L
7021 - TATAATTATAATCAGCAATAACACCAGTTTGTCTGGCGCTATTTGTCTTACATCATCTC - 7080
- Y N Y N Q Q * H Q F V L A L F V L H H L
- I I I I S N N T S L S W R Y L S Y I I S
- * L * S A I T P V C P G A I C L T S S P
7081 - CCTTGACTACAAAAGAATCTGCATAGACATTGGAGAAGCAAAGATCATTCAACTTAGTGG - 7140
- P * L Q K N L H R H W R S K D H S T * W
- L D Y K R I C I D I G E A K I I Q L S G
- L T T K E S A * T L E K Q R S F N L V A
7141 - CAGAAACGCCATAGCACTTAAAGGTTGAAAAAATGTTGAGTTGTAGAGCACAGAGTAAT - 7200
- Q K R H S T * R L K M L S C R A Q S N
- R N A I A L K G * K K C * V V E H R V I
- E T P * H L K V E K N V E L * S T E * S
7201 - CAGCAACACAATTAGAAATTTTTTTTCTCTCCCATGCATAGACAGAAGGGAATTTAGTAG - 7260
- Q Q H N * K F F F S P M H R Q K G I * *
- S N T I R N F F S L P C I D R R E F S S
- A T Q L E I F F L S H A * T E G N L V A
7261 - CATTAAAAACCTCTCCAAAAGGACACAAGTTTGTAAATATTAGGGAATCTCACACATCTC - 7320
- H * K P L Q K D T S L * Y * G I S Q H L
- I K N L S K R T Q V C N I R E S H N I S
- L K T S P K G H K F V I L G N L T T S P
7321 - CTGAGGGAACAACCCTGAAATTAGAGGTCTGGTAAATTCCTTTGTCAATCTCAAAGCTCT - 7380
- L R E Q P * N * R S G K F L C Q S Q S S
- * G N N P E I R G L V N S F V N L K A L
- E G T T L K L E V W * I P L S I S K L L
7381 - TAACAGAGCATTTGAGTTCAGCAAGTGGATTTTGAGAACAATCAACAGCATCTGTGATTG - 7440
- * Q S I * V Q Q V D F E N N Q Q H L * L
- N R A F E F S K W I L R T I N S I C D C
- T E H L S S A S G F * E Q S T A S V I V
7441 - TACCATTTTCATCATACTTGAGCATAAATGTAGTTGGCTTTAAATAGCCAACAAAATAGG - 7500
- Y H F H H T * A * M * L A L N S Q Q N R
- T I F I I L E H K C S W L * I A N K I G
- P F S S Y L S I N V V G F K * P T K * A
7501 - CTGCAGCTGACGTGCCCCAAATGTCTTGAGCAGGTGAAAAGGCTGTAAGAATGGCTCTAA - 7560
- L Q L T C P K C L E Q V K R L * E W L *
- C S * R A P N V L S R * K G C K N G S K
- A A D V P Q M S * A G E K A V R M A L K

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FIG. 12 Con't

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7561 - AATTTGTAATGTTAATACCAAGAGGCAACTTAAAAATAGGTTTCAAAGTGTTAAACCAG - 7620
- N L * C * Y Q E A T * K * V S K C * N Q
- I C N V N T K R Q L K N R * F Q S V K T R
- F V M L I P R G N L K I G F K V L K P E
7621 - AAGGTAGATCACGAACACTACATCTATAGGTTGATAGCCCTTATAAACATAGAGAAACCCAT - 7680
- K V D H E L H L * V D S P Y K H R E T H
- R * I T N Y I Y R L I A L I N I E K P I
- G R S R T T S I G * * P L * T * R N P S
7681 - CTTTATTTTTTAAACACAAACTCTCGTAAGTGTTTAAATACCTGACTTTTCTGAAACAT - 7740
- L Y F * T Q T L V S V * N Y L T F L K H
- F I F K H K L S * V F K I T * L F * N I
- L F L N T N S R K C L K L P D F S E T S
7741 - CAAGCGAAAAGGCATCAGATATGTACTCGAAAGTGCAATTAAATGCATTATCGAATATCA - 7800
- Q A K R H Q I C T R K C N * M H Y R I S
- K R K G I R Y V L E S A I K C I I E Y H
- S E K A S D M Y S K V Q L N A L S N I I
7801 - TAGTATGTGTCTGTGTACCCATGGGTTTAGAAACAGCAAAGAAAGGGTTGTCACACAATT - 7860
- * Y V S V Y P W V * K Q Q R K G C H T I
- S M C L C T H G F R N S K E R V V T Q F
- V C V C V P M G L E T A K K G L S H N S
7861 - CAAAGTTACATGCTCGTATAACAACATTAGTAGAATTGTTAATAATAATCACCGACTGTG - 7920
- Q S Y M L V * Q H * * N C * * * S P T V
- K V T C S Y N N I S R I V N N N H R L *
- K L H A R I T T L V E L L I I I T D C D
7921 - ACTTGTGTGTTTCATGGTAGAACCAAAAACCAACCACGGACAACATTTGATTTCTCTGTGG - 7980
- T C C S W * N Q K P N H G Q H L I S L W
- L V V H G R T K N P T T D N I * F L C G
- L L F M V E P K T Q P R T T F D F S V A
7981 - CAGCAAAATAAATACCATCCTTAAAGGTATGACAGGGTTGCCAAACGTATGATTAATAG - 8040
- Q Q N K Y H P * K V * Q G C Q T Y D * *
- S K I N T I L K R Y D R V A K R M I N S
- A K * I P S L K G M T G L P N V * L I V
8041 - TATGAAACCCTGTAACATTAGAATAAAATGGAAGAAATAAATCCTGAGTTAAATAAAGAG - 8100
- Y E T L * H * N K M E E I N P E L N K E
- M K P C N I R I K W K K * I L S * I K S
- * N P V T L E * N G R N K S * V K * R V
8101 - TGTCTGATCTAAAAATTTTCATCAGGATAGTAAACCCCCCTCATAGATGAAGTATGTTGAG - 8160
- C L I * K F H Q D S K P P S * M K Y V E
- V * S K N F I R I V N P P H R * S M L S
- S D L K I S S G * * T P L I D E V C * V
8161 - TGTAATTAGGAGCTTGAACATCATCAAAGTGGTGCACCGGTCAAGGTCACTACCACTAG - 8220
- C N * E L E H H Q K W C T G Q G H Y H *
- V I R S L N I I K S G A P V K V T T T S
- * L G A * T S S K V V H R S R S L P L V
8221 - TGAGAGTAAGAAATAATAAGAAAATAAACATGTTTCGTTTGTGTTAACAAGAATATCAC - 8280
- * E * E I I R K * T C S F S C * Q E Y H
- E S K K * * E N K H V R L V V N K N I T
- R V R N N K K I N M F V * L L T R I S L
8281 - TTGAAACCACAACCTCTGTTGTTTTCTCTAATGATAAGCCTACCTTTTTCCAGAAGAGAAT - 8340
- L K P Q L C C F L * * * A Y L F P E E N
- * N H N S V V F S N D K P T F F Q K R I
- E T T T L L F S L M I S L P F S R R E *
8341 - AAATCATATCATTGATTTGATTCTCCTTAAGAGACATTACAGCAGTTCCTCTTAATTTAA - 8400
- K S Y H * F D S P * E T L Q Q F L L I *
- N H I I D L I L L K R H Y S S S S * F K
- I I S L I * F S L R D I T A V P L N L R

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FIG. 12 Con't

8401 - GAGGAAATTTGCTCATGTCAAAGAGTGAATAGGAAGACAACCTGGATAGGATTTGTGTTCC - 8460
 - E E I C S C Q R V N R K T T G * D L C S
 - R K F A H V K E * I G R Q L D R I C V P
 - G N L L M S K S E * E D N W I G F V F L
 8461 - TCCAGAAAATGTAGTTAGCATGCATGGTATAGCCATCAATTTGTTCTTCGGCTTGCCAA - 8520
 - S R K C S * H A W Y S H Q F V P S A C Q
 - P E N V V S M H G I A I N L F L R L A K
 - Q K M * L A C M V * P S I C S F G L P R
 8521 - GATAGTTAGCCCCAATTA AAAATGCTTCCGATGATGATGCATTACATTTGTAACAAAAG - 8580
 - D S * P Q L K M L P M M M H L H L * Q K
 - I V S P N * K C F R * * C I Y I C N K S
 - * L A P I K N A S D D D A F T F V T K A
 8581 - CTGTCCACCATGAGAAATGGCCCCATAAGCTTGTAAGGTCAGCATTCCAAGAATGCTCTG - 8640
 - L S T M R N G P * A C K G Q H S K N A L
 - C P P * E M A H K L V K V S I P R M L C
 - V H H E K W P I S L * R S A F Q E C S V
 8641 - TTATCTTTACAGCTATAGAACCACCCAGGGCTAGTTTTTGCTTTATAAATCCACACAGAT - 8700
 - L S L Q L * N H P G L V F A L * I H T D
 - Y L Y S Y R T T Q G * F L L Y K S T Q I
 - I F T A I E P P R A S F C F I N P H R *
 8701 - AAGTGAAAACCCCTTCTTTAGAGTCATTCTCTTTTGTCACATGTTTGGTCCTAGGGTCAT - 8760
 - K * K T L L * S H S L L S H V W S * G H
 - S E K P F F R V I L F C H M F G P R V I
 - V K N P S L E S F S F V T C L V L G S Y
 8761 - ACATATCGCTAATAATAAGGTCCCATTATTAGCCGTATGTACTGTTGCACAGTCTCCAA - 8820
 - T Y R * * * G P I Y * P Y V L L H S L Q
 - H I A N N K V P F I S R M Y C C T V S N
 - I S L I I R S H L L A V C T V A Q S P I
 8821 - TTAAAGTAGAATCTGCGTCGGAGACGAAGTCATTAAGATCTGAATCGACAAGTAGTGTGC - 8880
 - L K * N L R R R S H * D L N R Q V V C
 - * S R I C V G D E V I K I * I D K * C A
 - K V E S A S E T K S L R S E S T S S V P
 8881 - CAGTTGGCAACCATTGTCTGAGCACAGCTGTACCTGGTGCAACTCCTTTATCAGAGCCAG - 8940
 - Q L A T I V * A Q L Y L V Q L L Y Q S Q
 - S W Q P L S E H S C T W C N S F I R A S
 - V G N H C L S T A V P G A T P L S E P A
 8941 - CACCAAAGTGAATAACTCTCATGTTGTAGGGTACAGCTAAAGTAAGTGATTTTAAGTATT - 9000
 - H Q S E * L S C C R V Q L K * V Y L S I
 - T K V N N S H V V G Y S * S K C I * V L
 - P K * I T L M L * G T A K V S V F K Y *
 9001 - GACACAGTTGAGTATACTTTGCGACATTCATCATTATTCCTTTTGGTATAACAGCATT - 9060
 - D T V E Y T L R H S S L F L L V * Q H F
 - T Q L S I L C D I H H Y S F W Y N S I F
 - H S * V Y F A T F I I I P F G I T A F S
 9061 - CACCATAATTCTGAAGGTCACACTTTTCAAGAAGCATTCTTTGCATCTTGTACAAGTTAG - 9120
 - H H N S E G H T F Q E A F F A S C T S *
 - T I I L K V T L F K K H S L H L V Q V R
 - P * F * R S H F S R S I L C I L Y K L G
 9121 - GCATCGCAACACCTGGTTGCCACGCTTGACTTGCTTGTAGTTTTGGGTAGAAGGTTTCAA - 9180
 - A S Q H L V A T L D L L V V L G R R F Q
 - H R N T W L P R L T C L * F W V E G F N
 - I A T P G C H A * L A C S F G * K V S T
 9181 - CATGTCCATCCTTACACCAAAGCATGAATGAAATTTTCAGCATAGTCAATTGTAACCTTGA - 9240
 - H V H P Y T K A * M K F Q H S Q L * P *
 - M S I L T P K H E * N F S I V N C N L D
 - C P S L H Q S M N E I S A * S I V T L T

FIG. 12 Con't

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9241 - CCACTTTTGAATCACTGACAAATCTTGTGACTTTATTATCTCGACAAAGTCATCAAGTA - 9300
- P L L K S L T N L V T L L S R Q S H Q V
- H F * N H * Q I L * L Y Y L D K V I K *
- T F E I T D K S C D F I I S T K S S S K
9301 - AAAGATCAATCACAGAACACACACATTTTGTGAACTGTTTGGCGCATCTGTTATGAAGT - 9360
- K D Q S Q N T H I L M N L F A H L L * S
- K I N H R T H T F * * T C L R I C Y E V
- R S I T E H T H F D E P V C A S V M K *
9361 - AATTTTTCCTGTGCTGTCCATAGGGATAAAATCCTCTAATTTAAGTGGTGAATCTTGTG - 9420
- N F S L C C P * G * N P L I * V V N L V
- I F H C A V H R D K I L * F K W * I L *
- F F T V L S I G I K S S N L S G E S C E
9421 - AGCGCTTGGCTAAGCCTATCATTAAATGAAGACCGCCAAGTTGTCCATGACTGAAATCTC - 9480
- S A W L S L S L N E D R Q V V H D * N L
- A L G * A Y H * M K T A K L S M T E I S
- R L A K P I I K * R P P S C P * L K S P
9481 - CATAAACGATGTGTTTGAAGGCATAGCCCTCGAGCTTATATCGCTGTATGAATTCATCCA - 9540
- H K R C V R R H S P R A Y I A V * I H P
- I N D V F E G I A L E L I S L Y E F I H
- * T M C S K A * P S S L Y R C M N S S I
9541 - TAGCGAGCTCGAGAAAGTCAGTTTCCATTGTGATCTGGGCTTAAATCCTCTAAGTCTC - 9600
- * R A R E S Q F P F V I W A * N P L S L
- S E L E K V S F H L * S G L K I L * V S
- A S S R K S V S I C D L G L K S S K S L
9601 - TGCTCTGAGTAAAGTAGGTTTCAGGCAACTGTTGAATAATGCCGTCTACTTTCTTAAAGT - 9660
- C S E * S R F Q A T V E * C R L L S * S
- A L S K V G F R Q L L N N A V Y F L K V
- L * V K * V S G N C * I M P S T F L K *
9661 - AGTTAAACTGTGTTTTTACTGATTCTCCAATTAATGTGACTCCATTGACGTAGCTTGTG - 9720
- S * T V F L L I L Q L M * L H * R * L V
- V K L C F Y * F S N * C D S I D A S L C
- L N C V F T D S P I N V T P L T L A C A
9721 - CTGGTCCCTTTGAAGGTGTTAGACCTTTGACTGAACCTTCTGTTATTAACACCATTA - 9780
- L V P L K V L D L * L N L L L L K H H Y
- W S L * R C * T F D * T F C Y * N T I T
- G P F E G V R P L T E P S V I K T P L R
9781 - GGGCGTTTCTAAAAAGGTCTACCTGTCCTTCCACTCTACCATCAAACAAGACAGTAAGT - 9840
- G R F * K G L P V L P L Y H Q T R Q * V
- G V S K K V Y L S F H S T I K Q D S K *
- A F L K R S T C P S T L P S N K T V S E
9841 - AAGAACAAGCACTCTCAGTAGGTTTCTTGGCAATGTGAGTCATTGTGCAGACACCTATTG - 9900
- K N K H S Q * V S W Q C Q S L C R H L L
- R T S T L S R F L G N V S H C A D T Y C
- E Q A L S V G F L A M S V I V Q T P I V
9901 - TAGATACATGTGCTGGGGCTTCTCTTTTGTAGTCCCAGATTACAGTATTAGCAGCGATAT - 9960
- * I H V L G L L F C S P R L Q Y * Q R Y
- R Y M C W G F S F V V P D Y S I S S D I
- D T C A G A S L L * S Q I T V L A A I S
9961 - CAACACCCAAATTATTGAGTATCTTAATCTCTGGCACTGGTTTAATGTTACGCTTAGCCC - 10020
- Q H P N Y * V S * S L A L V * C Y A * P
- N T Q I I E Y L N L W H W F N V T L S P
- T P K L L S I L I S G T G L M L R L A Q
10021 - AAAGCTCAAATGCAACATTAACAGGAAGTGTTGTCTTATTTTCAAAGATCTCCACATCAA - 10080
- K A Q M Q H * Q E V L S Y F Q R S P H Q
- K L K C N I N R K C C L I F K D L H I N
- S S N A T L T G S V V L F S K I S T S I

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FIG. 12 Con't

10081 - TACCATCTACCTTTGTGTAAACAGCATTATTAATGATGGAAACAGGTGCTTCGCCGGCGT - 10140
 - Y H L P L C K Q H Y * * W K Q V L R R R
 - T I Y L C V N S I I N D G N R C F A G V
 - P S T F V * T A L L M M E T G A S P A C
 10141 - GTCCATCAAAGTGTCTTTATTAACAACATTATAAGCCACATTTTCTAAACTCTGTAACC - 10200
 - V H Q S V L Y * Q H Y K P H F L N S V T
 - S I K V S F I N N I I S H I F * T L * P
 - P S K C P L L T T L * A T F S K L C N L
 10201 - TGGTAAATGTATTCCACAGGTTATAAGTATCAAATGTTTGTAATCCATAGGCTAAATC - 10260
 - W * M Y S T G Y K Y Q I V C K S I G * I
 - G K C I P Q V I S I K L F V N P * A K S
 - V N V F H R L * V S N C L * I H R L N P
 10261 - CAGCAGAAATCATCATATTATATGCATCCAAGTACTGTCTGGTACTCATTTCATGGTGTGTC - 10320
 - Q Q K S S Y Y M H P S T V G T H L H G V
 - S R N H H I I C I Q V L S V L I C M V S
 - A E I I I L Y A S K Y C R Y S F A W C L
 10321 - TGCAAACAGCACCTAAATTCATCGTGTAAATACACGTAGCAGATTTGAGTGGAAACAT - 10380
 - C K Q H H L N C I V * Y T * Q I * V E H
 - A N S T T * I A S C N T R S R F E W N I
 - Q T A P P K L H R V I H V A D L S G T *
 10381 - AATCAATATCCGACACTACTTGTTCATGAGACTCACAAGGACTATCAGAATAGTAAA - 10440
 - N Q Y P T L L V C H E T H K D Y Q N S K
 - I N I R H Y L F A M R L T R T I R I V K
 - S I S D T T C L P * D S Q G L S E * * K
 10441 - AGAAAGGCAATTGCTTTAAATTAGTAAATGCACTTTTATCGAAAGCTGGAGTGTGGAATG - 10500
 - R K A I A L N * * M H F Y R K L E C G M
 - E R Q L L * I S K C T F I E S W S V E C
 - K G N C F K L V N A L L S K A G V W N A
 10501 - CATGCTTATTCACATACAACTACCACCATCACAGCCTGGTAAGTTCAAGTTTGACAAGA - 10560
 - H A Y S H T N Y H H S L V S S S L T R
 - M L I H I Q T T T I T A W * V Q V * Q D
 - C L F T Y K L P P S Q P G K F K F D K T
 10561 - CTCTTGTGTCAAACCTACACACAATTGCATTGGCTGGGTAACGATCAACGTTACAATTCC - 10620
 - L L C Q T Y T Q L H W L G N D Q R Y N S
 - S C V K P T H N C I G W V T I N V T I P
 - L V S N L H T I A L A G * R S T L Q F Q
 10621 - AAAACAAACAAACACCATCAGTGAATTTATCGTGATGTGTAGCATAAGAATAGAAGAGTT - 10680
 - K T N K H H Q * I Y R D V * H K N R R V
 - K Q T N T I S E F I V M C S I R I E E F
 - N K Q T P S V N L S * C V A * E * K S S
 10681 - CCTCTATTTTGTAAAGCTTTGTCACTACATGGCTGAGCATCGTAGAACTTCCATTCTACTT - 10740
 - P L F C K L C H Y M A E H R R T S I L L
 - L Y F V S F V T T W L S I V E L P F Y F
 - S I L * A L S L H G * A S * N F H S T S
 10741 - CAGCCTGAGGCACACACTTGATAGCCTTTGGATTTCCAATGTCATGAAGAACTGGAACT - 10800
 - Q P E A H T * * P L D F Q C H E E L E T
 - S L R H T L D S L W I S N V M K N W K L
 - A * G T H L I A F G F P M S * R T G N L
 10801 - TATCAGCAAGCAATGCAGACTTCACAACCATGTGTTGTACTTTTCTGCAAGCAGAATTAA - 10860
 - Y Q Q A M Q T S Q P C V V L F C K Q N *
 - I S K Q C R L H N H V L Y F S A S R I N
 - S A S N A D F T T M C C T F L Q A E L T
 10861 - CCCTCAGTTCATCTCCTATAATAGGGTATTCAACAGACCAATCAACGCGCTTAACAAAGC - 10920
 - P S V H L L * * G I Q Q T N Q R A * Q S
 - P Q F I S Y N R V F N R P I N A L N K A
 - L S S S P I I G Y S T D Q S T R L T K H

FIG. 12 Con't

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10921 - ACTCATGGACTGCTAAACATCTAGTCATGATAGCATCACAACCTAGCCACATGTGCATTTTC - 10980
      - T H G L L N I * S * * H H N * P H V H F
      - L M D C * T S S H D S I T T S H M C I S
      - S W T A K H L V M I A S Q L A T C A F P
10981 - CATGTACCTGGCAATGTTGGTCATGGTTACTCTGAAGGTTACCCGTAAAGCCCCACTGCT - 11040
      - H V P G N V G H G Y S E G Y P * S P T A
      - M Y L A M L V M V T L K V T R K A P L L
      - C T W Q C W S W L L * R L P V K P H C *
11041 - GAACATCAATCATAAATGGGTTATAGACATAGTCAAAACCCACAGAATGATTCCAGCAGG - 11100
      - E H Q S * M G Y R H S Q N P Q N D S S R
      - N I N H K W V I D I V K T H R M I P A G
      - T S I I N G L * T * S K P T E * F Q Q A
11101 - CATAAGTATCTGATGAAGTAGAAAAGCAAGTTGCACGTTTGTACACAGACAACACGTTTC - 11160
      - H K Y L M K * K S K L H V C H T D N T F
      - I S I * * S R K A S C T F V T Q T T R S
      - * V S D E V E K Q V A R L S H R Q H V L
11161 - TTTTCAGGTCCAATCTTGACAAAGTACTTCATTGATGTAAGCTCAAAGCCATGCGCCCAA - 11220
      - F Q V Q S * Q S T S L M * A Q S H A P K
      - F R S N L D K V L H * C K L K A M R P K
      - S G P I L T K Y F I D V S S K P C A Q R
11221 - GGACGAACACGACTCTGTCTGACAATCCTTTTCAGTGTATCACTGAGCATTGTACTATCT - 11280
      - G R T R L C L T I L S V Y H * A F V L S
      - D E H D S V * Q S F Q C I T E H L Y Y L
      - T N T T L S D N P F S V S L S I C T I L
11281 - TAATACGCACTACATTCCAGGGCAAGCCTTTATACATGAGTGGTATAAGATGTTTAAACT - 11340
      - * Y A L H S R A S L Y T * V V * D V * T
      - N T H Y I P G Q A F I H E W Y K M F K L
      - I R T T F Q G K P L Y M S G I R C L N W
11341 - GGTCACCTGGTGGAGGTTTTGCATTAACTCTGGTGAATTCTGTGTTATTTTCAGTGTCAA - 11400
      - G H L V E V L H * L W * I L C Y F Q C Q
      - V T W W R F C I N S G E F C V I F S V N
      - S P G G G F A L T L V N S V L F S V S T
11401 - CATAACCAGTCGGTACAGCTACTAAGTTAACACCTGTAGAAAATCCTAGCTGGAGAGGTA - 11460
      - H N Q S V Q L L S * H L * K I L A G E V
      - I T S R Y S Y * V N T C R K S * L E R *
      - * P V G T A T K L T P V E N P S W R G R
11461 - GGTTAGTACCCACAGCATCTCTAGTTGCATGACAGCCCTCTACATCAAAGCCAATCCACG - 11520
      - G * Y P Q H L * L H D S P L H Q S Q S T
      - V S T H S I S S C M T A L Y I K A N P R
      - L V P T A S L V A * Q P S T S K P I H A
11521 - CACGAACGTGACGAATAGCTTCTTCGCGGGTGATAAACATATTAGGGTAACCATTGACTT - 11580
      - H E R D E * L L R G * * T Y * G N H * L
      - T N V T N S F F A G D K H I R V T I D L
      - R T * R I A S S R V I N I L G * P L T W
11581 - GGTAATTCATTTTGAAACCCATCATAGAGATGAGTCTACGGTAGGTCATGTCCTTTGGTA - 11640
      - G N S F * N P S * R * V Y G R S C P L V
      - V I H F E T H H R D E S T V G H V L W Y
      - * F I L K P I I E M S L R * V M S F G M
11641 - TGCCTGGTATGTCAACACATAATCCTTCAGTCTTGAATTTTATATCAACGCTGAGGTGTG - 11700
      - C L V C Q H I I L Q S * I L Y Q R * G V
      - A W Y V N T * S F S L E F Y I N A E V C
      - P G M S T H N P S V L N F I S T L R C V
11701 - TAGGTGCCTGTGTAGGATGAAGACCAGTAATGATCTTACTACAGTCCTTAAAAAGTCCAG - 11760
      - * V P V * D E D Q * * S Y Y S P * K V Q
      - R C L C R M K T S N D L T T V L K K S S
      - G A C V G * R P V M I L L Q S L K S P V

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FIG. 12 Con't

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11761 - TTACATTTTCTGCTTGTAAATGTAGCCACATTGCGACGTGGTATTTCTAGACTTGTAATT - 11820
- L H F L L V M * P H C D V V F L D L * I
- Y I F C L * C S H I A T W Y F * T C K L
- T F S A C N V A T L R R G I S R L V N C
11821 - GCAGTTTGTCTATAAAGATCTCTATCAGACATTATGCACAAAATGCCAATTTTGGCCCTTG - 11880
- A V C H K D L Y Q T L C T K C Q F L P L
- Q F V I K I S I R H Y A Q N A N F C P C
- S L S * R S L S D I M H K M P I F A L V
11881 - TGATAGCCACATTGAAGCGGTTGACATTACAAGAGTGTGCTGTTTCAGTAGTTTGTGTGA - 11940
- * * P H * S G * H Y K S V L F Q * F V *
- D S H I E A V D I T R V C C F S S L C E
- I A T L K R L T L Q E C A V S V V C V N
11941 - ATATGACATAGTCATATTCAGAACCCTGTGATGAATCAACAGTCTGCGTAGGCAATCCTA - 12000
- I * H S H I Q N P V M N Q Q S A * A I L
- Y D I V I F R T L * * I N S L R R Q S *
- M T * S Y S E P C D E S T V C V G N P K
12001 - AGATTTTGAAGCTACAGCGTTCGTGAATTATAAGGTGAGATAAAAACAGCTTTTCTCC - 12060
- R F L K L Q R S V N Y K V R * K Q L F S
- D F * S Y S V L * I I R * D K N S F S P
- I F E A T A F C E L * G E I K T A F L Q
12061 - AAGCAGGATTGCGTGAAGAAATTCTCTTACAACGCCTATTTGAGGTCTGTTGATTGCAG - 12120
- K Q D C V * E I L L Q R L F E V C * L Q
- S R I A C K K F S Y N A Y L R S V D C R
- A G L R V R N S L T T P I * G L L I A D
12121 - ATGAAACATCATGTGTAATAACACCTTTGTAGAACATTTTGAAGCATTGAGCTGACTTAT - 12180
- M K H H V * * H L C R T F * S I E L T Y
- * N I M C N N T F V E H F E A L S * L I
- E T S C V I T P L * N I L K H * A D L S
12181 - CCTTGTGTGCTTTTAGCTTATTGTCTATAAAGCACTCACAGTGTCAACAATTTTCAG - 12240
- P C V L L A Y C H K L K H S Q C Q Q F Q
- L V C F * L I V I N * S T H S V N N F S
- L C A F S L L S * T K A L T V S T I S A
12241 - CAGGACAACGGCGACAAGTTCCAAGGAACATGTCTGGACCTATTGTTTTCATAGTCTGC - 12300
- Q D N G D K F Q G T C L D L L F S * V C
- R T T A T S S K E H V W T Y C F H K S A
- G Q R R Q V P R N M S G P I V F I S L H
12301 - ACACTGAATTAATAATTCTGGTTCTAGTGTGCCTTTAGTCAGCAATGTGCGGGGGGCTG - 12360
- T L N * N I L V L V C L * S A M C G G L
- H * I K I F W F * C A F S Q Q C A G G W
- T E L K Y S G S S V P L V S N V R G A G
12361 - GTAATTGAGCAGGATCGCCAATATAGACGTAGTGTTCACGAAGTCTAGCATTGACAA - 12420
- V I E Q D R Q Y R R S V L H E V * H * Q
- * L S R I A N I D V V F C T K S S I D N
- N * A G S P I * T * C F A R S L A L T T
12421 - CACTCAAGTCATAATTAGTAGCCATAGAGATTTTCATCAAAGACTACAATGTGAGCAGTTG - 12480
- H S S H N * * P * R F H Q R L Q C Q Q L
- T Q V I I S S H R D F I K D Y N V S S C
- L K S * L V A I E I S S K T T M S A V V
12481 - TTTCTGGCAATGCATTTACAGTGCAGAAAACATACTGTTCTAGTGTGAATTCATTTGA - 12540
- F L A M H L Q C R K H T V L V L N S L *
- F W Q C I Y S A E N I L F * C * I H F E
- S G N A F T V Q K T Y C S S V E F T L N
12541 - ATTTATCAAAACACTCTACGCGCGCAGCGCAGGTATGATTCTACTACATTTATCTATGG - 12600
- I Y Q N T L R A H A Q V * F Y Y I Y L W
- F I K T L Y A R T R R Y D S T T F I Y G
- L S K H S T R A R A G M I L L H L S M G

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FIG. 12 Con't

12601 - GCAAATATTTTAAATGCCTTTTTCACATAGGGCATCAACAGCTGCATGAGAGCATGCCGTAT - 12660
 - A N I L M P F H I G H Q Q L H E S M P Y
 - Q I F * C L F T * G I N S C M R A C R I
 - K Y F N A F S H R A S T A A * E H A V Y
 12661 - ACACATATGCGAGCAGATGGGTAATAGAGAGCAAGTCCGATGGCAAATGACTCTTACCAG - 12720
 - T L C E Q M G N R E Q V R W Q N D S Y Q
 - H Y A S R W V I E S K S D G K M T L T S
 - T M R A D G * * R A S P M A K * L L P V
 12721 - TACCAGGTGGTCCTTGGAGTGTAGAGTACTTTTGCATGCCGACCTTTTGATAATTTGCAA - 12780
 - Y Q V V L G V * S T F A C R P F D N L Q
 - T R W S L E C R V L L H A D L L I I C N
 - P G G P W S V E Y F C M P T F * * F A T
 12781 - CATTGCTAGAAAACCTCATCTGAGATGTTGAGTGTGGGTACAAGCCAGTAATTCTCACAT - 12840
 - H C * K T H L R C * V L G T S Q * F S H
 - I A R K L I * D V E C W V Q A S N S H I
 - L L E N S S E M L S V G Y K P V I L T *
 12841 - AGTGCTCTTGTGGCACTAGAGTAGGTGCTAAGTGGCATTACAGTGTGAGATGTCAACA - 12900
 - S A L V A L E * V H * V A L Q C E M S T
 - V L L W H * S R C T K W H Y S V R C Q H
 - C S C G T R V G A L S G I T V * D V N T
 12901 - CAAAGTAATCACCAACATTCAACTTGTATGTCGTAGTACCTCTGTACACAACAGCATCAC - 12960
 - Q S N H Q H S T C M S * Y L C T Q Q H H
 - K V I T N I Q L V C R S T S V H N S I T
 - K * S P T F N L Y V V V P L Y T T A S P
 12961 - CATAGTCACCTTTTCAAAGGTGTACTCTCCAATCTGTACTTTACTATTTTAGTTACAC - 13020
 - H S H L F Q R C T L Q S V L Y Y F * L H
 - I V T F F K G V L S N L Y F T I F S Y T
 - * S P F S K V Y S P I C T L L F L V T R
 13021 - GGTAACCAGTAAAGACATAGTTTCTGTTCAATGGTGGTCTAGGTTTCCAACCTCCCATG - 13080
 - G N Q * R H S F C S M V V * V F Q P P M
 - V T S K D I V S V Q W W S R F S N L P *
 - * P V K T * F L F N G G L G F P T S H E
 13081 - AAAGATGCAATTCTCTGTCTGAGAGTACTTCGCGTACAGTGGCAATACCATATGACAGCT - 13140
 - K D A I L C Q R V L R V Q W Q Y H M T A
 - K M Q F S V R E Y F A Y S G N T I * Q L
 - R C N S L S E S T S R T V A I P Y D S L
 13141 - TAAATGTTTCCTCAGTGGCTTTGAGCGTTTCTGCTGCGAAAAGCTTGAGTCTCTCAGTAC - 13200
 - * M F P Q W L * A F L L R K A * V S Q Y
 - K C F L S G F E R F C C E K L E S L S T
 - N V S S V A L S V S A A K S L S L S V Q
 13201 - AAGTGTGGCAAGTATGTAATCGCCAGCATTAGTCCAATCACATGTTGCTATCGCATTGA - 13260
 - K C W Q V C N R Q H * S N H M L L S H *
 - S V G K Y V I A S I S P I T C C Y R I E
 - V L A S M * S P A L V Q S H V A I A L K
 13261 - AGTCAGTGACATTGTCACTGCCTACACATGTGTTTTGTATAAACCAAAAACCTGACCAT - 13320
 - S Q * H C H C L H M C F C I N Q K P D H
 - V S D I V T A Y T C V F V * T K N L T I
 - S V T L S L P T H V F L Y K P K T * P L
 13321 - TAGCACATAATGGAAAACCTAATGGGAGGCTTATGTGACTTGCAATAATAGCTCATACCTC - 13380
 - * H I M E N * W E A Y V T C N N S S Y L
 - S T * W K T N G R L M * L A I I A H T S
 - A H N G K L M G G L C D L Q * * L I P P
 13381 - CTAGATACAGTTGTGTACATCAGTGACATCACAACCTGGGGCATTGCAAACATAGGGGAT - 13440
 - L D T V V S H Q * H H N L G H C K H R D
 - * I Q L C H I S D I T T W G I A N I G I
 - R Y S C V T S V T S Q P G A L Q T * G L

FIG. 12 Con't

13441 - TAACAGACAACACTAATTTGTGTGATGTTGAAATGACATGGTCATAGCAGCACTTGCAAC - 13500
 - * Q T T L I C V M L K * H G H S S T C N
 - N R Q H * F V * C * N D M V I A A L A T
 - T D N T N L C D V E M T W S * Q H L Q H
 13501 - ATAGGAATGGTCTCCTAATAACAGGCACCGCAACGAAGTGAAGTCTGTGAATTGCACAATA - 13560
 - I G M V S * Y R H R N E V K S V N C T I
 - * E W S P N T G T A T K * S L * I A Q Y
 - R N G L L I Q A P Q R S E V C E L H N T
 13561 - CACAAGCACCTACAGCCTGCAAGACTGTATGTGGTGTGTACATAGCCTCATAAACTCAG - 13620
 - H K H L Q P A R L Y V V C T * P H K T Q
 - T S T Y S L Q D C M W C V H S L I K L R
 - Q A P T A C K T V C G V Y I A S * N S G
 13621 - GTTCCAGTACCGTGAGGTGTTATCATTAGTTAGCATTACGGAATACATGTCCAACATGT - 13680
 - V P S T V R C Y H * L A L R N T C P T C
 - F P V P * G V I I S * H Y G I H V Q H V
 - S Q Y R E V L S L V S I T E Y M S N M W
 13681 - GGCCAGTAAGCTCATCATGTAACTTTCTAATGTATTGTAAATACAAGTGAAAGACATCAG - 13740
 - G Q * A H H V T F * C I V N T S E R H Q
 - A S K L I M * L S N V L * I Q V K D I S
 - P V S S S C N F L M Y C K Y K * K T S A
 13741 - CATACTCCTGATTAGGATGTTTGTAAAGTGGGTAAGCATCAATAGCCAGTGACACGAACC - 13800
 - H T P D * D V L * V G K H Q * P V T R T
 - I L L I R M F C K W V S I N S Q * H E P
 - Y S * L G C F V S G * A S I A S D T N L
 13801 - TTTCAATCATAAGTGTAACATCTGTTTTGACAATATCATCGACAAAACAGCCTGCGCCTA - 13860
 - F Q S * V Y H L F * Q Y H R Q N S L R L
 - F N H K C T I C F D N I I D K T A C A *
 - S I I S V P S V L T I S S T K Q P A P N
 13861 - ATATTCTTGATGGATCTGGGTAAGGCAGGTACACGTAATCATCTCCTTGTTTAACTAGCA - 13920
 - I F L M D L G K A G T R N H L L V * L A
 - Y S * W I W V R Q V H V I I S L F N * H
 - I L D G S G * G R Y T * S S P C L T S I
 13921 - TTGTATGCTGTGAGCAAAATTCGTGAGGTCCTTTAGTAAGGTCAGTCTCAGTCCAACATT - 13980
 - L Y A V S K I R E V L * * G Q S Q S N I
 - C M L * A K F V R S F S K V S L S P T F
 - V C C E Q N S * G P L V R S V S V Q H F
 13981 - TTGCCTCAGACATGAACACATTATTTTGATAATAAAGAACTGCCTTAAAGTTCTTAATGC - 14040
 - L P Q T * T H Y F D N K E L P * S S * C
 - C L R H E H I I L I I K N C L K V L N A
 - A S D M N T L F * * * R T A L K F L M L
 14041 - TAGCTACTAAACCTTGAGCCGCATAGTTACTGTTATAGCACACAACGGCATCATCAGAAA - 14100
 - * L L N L E P H S Y C Y S T Q R H H Q K
 - S Y * T L S R I V T V I A H N G I I R K
 - A T K P * A A * L L L * H T T A S S E R
 14101 - GAATCATCATGGAGAAATGTTTACGCAGGTAAGCGTAAAACTCATCCACGAATTCATGAT - 14160
 - E S S W R N V Y A G K R K T H P R I H D
 - N H H G E M F T Q V S V K L I H E F M I
 - I I M E K C L R * A * N S S T N S * S
 14161 - CAACATCCCTATTTCTATAGAGACACTCATAGAGCCTGTGTTGTAGATTGCGGACATACT - 14220
 - Q H P Y F Y R D T H R A C V V D C G H T
 - N I P I S I E T L I E P V L * I A D I L
 - T S L F L * R H S * S L C C R L R T Y L
 14221 - TGTCAGCTATCTTATTACCATCAGTTGAAAGAAGTGCAATTACATTGGCTGTAACAGCTT - 14280
 - C Q L S Y Y H Q L K E V H L H W L * Q L
 - V S Y L I T I S * K K C I Y I G C N S L
 - S A I L L P S V E R S A F T L A V T A *

FIG. 12 Con't

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14281 - GACAAATGTTAAAGACACTATTAGCATAAGCAGTTGTAGCATCACCGGATGATGTTCCAC - 14340
      - D K C * R H Y * H K Q L * H H R M M F H
      - T N V K D T I S I S S C S I T G * C S T
      - Q M L K T L L A * A V V A S P D D V P P
14341 - CTGGTTTAACATATAGTGAGCCGCCACACATGACCATCTCACTTAATACTTGCGCACACT - 14400
      - L V * H I V S R H T * P S H L I L A H T
      - W F N I * * A A T H D H L T * Y L R T L
      - G L T Y S E P P H M T I S L N T C A H S
14401 - CGTTAGCTAACCTGTAGAAACGGTGTGATAAGTTACAGCAAGTGTTATGTTTGCGAGCAA - 14460
      - R * L T C R N G V I S Y S K C Y V C E Q
      - V S * P V E T V * * V T A S V M F A S K
      - L A N L * K R C D K L Q Q V L C L R A R
14461 - GAACAAGAGAGGCCATTATCCTAAGCATGTTAGGCATGGCTCTGTCACATTTTGGATAAT - 14520
      - E Q E R P L S * A C * A W L C H I L D N
      - N K R G H Y P K H V R H G S V T F W I I
      - T R E A I I L S M L G M A L S H F G * S
14521 - CCCAACCCATAAGGTGTGGAGTTTCTACATCACTGTAAACAGTTTTTAACATATTATGCC - 14580
      - P N P * G V E F L H H C K Q F L T Y Y A
      - P T H K V W S F Y I T V N S F * H I M P
      - Q P I R C G V S T S L * T V F N I L C Q
14581 - AGCCACCGTAAACTTGCTTGTTCCAATTACCACAGTAGCTCCTCTAGTGGCGGCTATTG - 14640
      - S H R K T C L F Q L P Q * L L * W R L L
      - A T V K L A C S N Y H S S S S S G G Y *
      - P P * N L L V P I T T V A P L V A A I D
14641 - ACTTCAATAATTTCTGATGAACTGTCTATTTGTCATAGTACTACAGATAGAGACACCAG - 14700
      - T S I I S D E T V Y L S * Y Y R * R H Q
      - L Q * F L M K L S I C H S T T D R D T S
      - F N N F * * N C L F V I V L Q I E T P A
14701 - CTACGGTGCGAGCTCTATTCTTTGCTAATGGCATACTTAAGATTCATTGAGTTATAG - 14760
      - L R C E L Y S L H * W H T * D S F E L *
      - Y G A S S I L C T N G I L K I H L S Y S
      - T V R A L F F A L M A Y L R F I * V I V
14761 - TAGGGATGACATTACGCTTAGTATACGCGAAAAGTGCATCTTGATCCTCATAACTCATTG - 14820
      - * G * H Y A * Y T R K V H L D P H N S L
      - R D D I T L S I R E K C I L I L I T H *
      - G M T L R L V Y A K S A S * S S * L I E
14821 - AGTCATAATAAAGTCTAGCCTTACCCCATTTATTAAATGGGAAACCAGCTGATTTATCCA - 14880
      - S H N K V * P Y P I Y * M G N Q L I Y P
      - V I I K S S L T P F I K W E T S * F I Q
      - S * * S L A L P H L L N G K P A D L S R
14881 - GATTGTTAACGATTACTTGGTTGGCATTAAATACAGCCACCATCGTAACAATCAAAGTATT - 14940
      - D C * R L L G W H * Y S H H R N N Q S I
      - I V N D Y L V G I N T A T I V T I K V F
      - L L T I T W L A L I Q P P S * Q S K Y L
14941 - TATCAACAACCTTCAACTACGAATAGGAGTTGTCTGATATCACACATTGTTGGCAGATTAT - 15000
      - Y Q Q L Q L R I G V V * Y H T L L A D Y
      - I N N F N Y E * E L S D I T H C W Q I I
      - S T T S T T N R S C L I S H I V G R L *
15001 - AACGATAATAGTCATAATCACTGATAGCAGCGTTGCCATCCTGAGCAAAGAAGAAGTGTT - 15060
      - N D N S H N H * * Q R C H P E Q R R S V
      - T I I V I I T D S S V A I L S K E E V F
      - R * * S * S L I A A L P S * A K K K C F
15061 - TTAGTTCAACAGAACTTCCTTCCTTAAAGAAACCTTTAGACACAGCAAAGTCATAAAAGT - 15120
      - L V Q Q N F L P * R N L * T Q Q S H K S
      - * F N R T S F L K E T F R H S K V I K V
      - S S T E L P S L K K P L D T A K S * K S

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FIG. 12 Con't


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15121 - CTTTATTAAATTACCGGGTTTGACAGTTTGAAAAGCAACATTGTTTGTAGTGCAGCTA - 15180
- L Y * N Y R V * Q F E K Q H C L L V Q L
- F I K I T G F D S L K S N I V C * C S Y
- L L K L P G L T V * K A T L F V S A A T
15181 - CTGAAAAGCATGTAGTGC GTTTATCTAGCAATAAATTGCCAGAAGCTGCATGCATAGCTG - 15240
- L K S M * C V Y L A I N C Q K L H A * L
- * K A C S A F I * Q * I A R S C M H S W
- E K H V V R L S S N K L P E A A C I A G
15241 - GATCAGCAGCATACACTAAAAGTTCCTTGAAACTGAGACGCGAGCTATGTAAGTTTACAT - 15300
- D Q Q H T L K V P * N * D A S Y V S L H
- I S S I H * K F L E T E T R A M * V Y I
- S A A Y T K S S L K L R R E L C K F T S
15301 - CCTGATTATGTACGACTCCTAACTCACGAAAATGGTATCCAGTTGAAACAACAAAAGGAA - 15360
- P D Y V R L L T H E N G I Q L K Q Q K E
- L I M Y D S * L T K M V S S * N N K R N
- * L C T T P N S R K W Y P V E T T K G T
15361 - CACCATCTACAAATATTTTTCTTACTAGTGGTCCAAAACCTGTAGGTGGAACACAGTAG - 15420
- H H L Q I F F L L V V Q N L * V E T Q *
- T I Y K Y F S Y * W S K T C R W K H S R
- P S T N I F L T S G P K L V G G N T V E
15421 - AAAATAACACATTAAAGTTTGACAATGAAGGATACACCTATCATCCAAACAGTTAATAC - 15480
- K I T H * S L H N E G Y T Y H P N S * Y
- K * H I K V C T M K D T P I I Q T V N T
- N N T L K F A Q * R I H L S S K Q L I Q
15481 - AATTGGGATGGTATGTCTGGTCCCAATATTTAAAATAACGGTCTGAAGAGACAAAGTCTCT - 15540
- N W D G M S G P N I * N N G R R D K V S
- I G M V C L V P I F K I T V E E T K S L
- L G W Y V W S Q Y L K * R S K R Q S L S
15541 - CTTCCGTAATAATCATATTTTCAGCAAATCCCACTTAATAAGTGGTTTTGCGAGATCAGCAT - 15600
- L P * N H I S A N P T * * V V L R D Q H
- F R K I I F Q Q I P L N K W F C E I S I
- S V K S Y F S K S H L I S G F A R S A S
15601 - CCATATGGGACTCAGCAGCCAATGCCCTAGTCAAAGTGAGGATGGGCATCAGCAATGAGT - 15660
- P Y G T Q Q P M P * S K * G W A S A M S
- H M G L S S Q C P S Q S E D G H Q Q * V
- I W D S A A N A L V K V R M G I S N E *
15661 - AATATGAATCCACAATAGGAACCTCCGAGCCTGGTGCTACTTGTACGAAATCACCGAAAT - 15720
- N M N P Q * E L R S L V L L V R N H R N
- I * I H N R N S A A W C Y L Y E I T E I
- Y E S T I G T P Q P G A T C T K S P K S
15721 - CGTACCAGTTCCCATTAAGATCCTGATTATCTAATGTACGTACGCCTACAATGCCTGCAT - 15780
- R T S S H * D P D Y L M S V R L Q C L H
- V P V P I K I L I I * C Q Y A Y N A C I
- Y Q F P L R S * L S N V S T P T M P A S
15781 - CACGCATAGCATCGCAGAATTGTACAGTCTTTAATAATGATTGGCGTACACGCTCACCTA - 15840
- H A * H R R I V Q S L I M I G V H A H L
- T H S I A E L Y S L * * * L A Y T L T *
- R I A S Q N C T V F N N D W R T R S P K
15841 - AGTTAGCATATACGCGTAAGATGTACAGATTCTCTACGAAGTCATACCAATCCTTCTTAT - 15900
- S * H I R V R C Q D S L R S H T N P S Y
- V S I Y A * D V R I L Y E V I P I L L I
- L A Y T R K M S G F S T K S Y Q S F L L
15901 - TGAAATAATCATCATCACAGCAATTGTATGTGACGAGTATTTCTTTTAATGTATACAAT - 15960
- * N N H H H S N C M * R V F L L M Y H N
- E I I I I T A I V C D E Y F F * C I T I
- K * S S S Q Q L Y V T S I S F N V S Q L

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FIG. 12 Con't

15961 - TACCCTCATCAAAATGACGTAGAGCATAGACTAAATCAGCCATTGTGTATTTAGTTAGAC - 16020
 - Y P H Q N D V E H R L N Q P L C I * L D
 - T L I K M T * S I D * I S H C V F S * T
 - P S S K * R R A * T K S A I V Y L V R R
 16021 - GCTGACGTGATATATGTGGTACCATGTCACCATCTACTCTAAACTTGAAAAAGTCATGGA - 16080
 - A D V I Y V V P C H H L L * T * K S H G
 - L T * Y M W Y H V T I Y S K L E K V M D
 - * R D I C G T M S P S T L N L K K S W T
 16081 - CAGCAACCGCTGGACAATCTTTAACCAAGTTATAAATAGTCTCTTCATGTTGGTAGTTAG - 16140
 - Q Q P L D N L * P S Y K * S L H V G S *
 - S N R W T I F N Q V I N S L F M L V V R
 - A T A G Q S L T K L * I V S S C W * L D
 16141 - ACATAGTATGCCTCTTAACCTACAAAGTAAGAGTCTAATAAATTGCCTTCCTCATCCTTCT - 16200
 - T * Y A S * L Q S K S L I N C L P H P S
 - H S M P L N Y K V R V * * I A F L I L L
 - I V C L L T T K * E S N K L P S S S S F S
 16201 - CCTGGAAGCGACAGCAATTAGTTTGTAGGAACCTTGCAAAACCAGCACTTTTTTCGTTGT - 16260
 - P G S D S N * F L G T L Q N Q H F F R C
 - L E A T A I S F * E L C K T S T F F V V
 - W K R Q Q L V F R N F A K P A L F S L *
 16261 - AAATATCAAAAGCCCTGTAGACGACATCAGTACTAGTGCCTGTGCCGCACGGTGTAAGAC - 16320
 - K Y Q K P C R R H Q Y * C L C R T V * D
 - N I K S P V D D I S T S A C A A R C K T
 - I S K A L * T T S V L V P V P H G V R R
 16321 - GGGCTGCACTTACACCGCAAACCGTTTAAAAACGTTGATGCATCCGCAGACTGCATCAA - 16380
 - G L H L H R K P V * K R * C I R R L H Q
 - G C T Y T A N P F K N V D A S A D C I K
 - A A L T P Q T R L K T L M H P Q T A S R
 16381 - GGGTTCGCGGAGTTGGTCACAACCTACAGCCATAACCTTTCCACATTCCGCAGACGGTACA - 16440
 - G F A E L V T T T A I T F P H S A D G T
 - G S R S W S Q L Q P * P F H I P Q T V Q
 - V R G V G H N Y S H N L S T F R R R Y R
 16441 - GACTGTGTTTCTAAGTGTAAACCCACTGGGTCATTAGCACAAAGTGGTAGGTATTTGGAC - 16500
 - D C V S K C K T H W V I S T S G R Y L D
 - T V F L S V K P T G S L A Q V V G I W T
 - L C F * V * N P L G H * H K W * V F G R
 16501 - GTACTTACCTTTCAAGTCACAGAATCCTTTAGGATTGGATGGTCAATGTGGCATCTACA - 16560
 - V L T F Q V T E S F R I W M V N V A S T
 - Y L P F K S Q N P L G F G W S M W H L Q
 - T Y L S S H R I L * D L D G Q C G I Y N
 16561 - ATACAGACAACATGAAGCACCACCAAAGGACTCTTGGTCCATGTTAGCTTCTGGTGTAC - 16620
 - I Q T T * S T T K G L L V H V S F W C Y
 - Y R Q H E A P P K D S W S M L A S G V T
 - T D N M K H H Q R T L G P C * L L V L Q
 16621 - AGTAATTGCCTGTCCTGTACCAGTGTGTGTACACAACATCTTCACACAGTTGGTGATTGG - 16680
 - S N C L S C T S V C T Q H L H T V G D W
 - V I A C P V P V C V H N I F T Q L V I G
 - * L P V L Y Q C V Y T T S S H S W * L V
 16681 - TTGTCCTCCACTTGCTAGGTAATCCTTATATGCTTTAGCAGGGTCTACTGCAAAAGCACA - 16740
 - L S S T C * V I L I C F S R V Y C K S T
 - C P P L A R * S L Y A L A G S T A K A Q
 - V L H L L G N P Y M L * Q G L L Q K H R
 16741 - GAAGGAAAGCACAGTTGAATTGGCAGGTACTTCTGTAGCATTTCAGCCTGAAGACGTAC - 16800
 - E G K H S * I G R Y F C S I S S L K T Y
 - K E S T V E L A G T S V A F P A * R R T
 - R K A Q L N W Q V L L * H F Q P E D V L

FIG. 12 Con't

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16801 - TGTAGCAGCTAAACTGCCCAGCACCATACCTCTATTTAGGTTGTTTAAGCCTTTGATGAA - 16860
      - C S S * T A Q H H T S I * V V * A F D E
      - V A A K L P S T I P L F R L F K P L M K
      - * Q L N C P A P Y L Y L G C L S L * * S
16861 - GTACAAGTATTTCACTTTAGGCCCTTTTGGTGTGTCTGTAACAAACCTACAAGGTGGTTC - 16920
      - V Q V F H F R P F W C V C N K P T R W F
      - Y K Y F T L G P F G V S V T N L Q G G S
      - T S I S L * A L L V C L * Q T Y K V V P
16921 - CAGTTCTGTGTAAATTGTACCTGTACCATCACTCTTAGGGAATCTAGCCCATTTGAGATC - 16980
      - Q F C V N C T C T I T L R E S S P F E I
      - S S V * I V P V P S L L G N L A H L R S
      - V L C K L Y L Y H H S * G I * P I * D L
16981 - TTGGTGGTCTGATAGTAATGCCAGCACAAACCTACCTCCCTTCGAATTGTTATAGTAGGC - 17040
      - L V V * * * C Q H K P T S L R I V I V G
      - W W S D S N A S T N L P P F E L L * * A
      - G G L I V M P A Q T Y L P S N C Y S R Q
17041 - AAGTGCATTGTCATCAGTACAAGCTGTTTGTGTGGTACCAGCCGCACAGGACATCTGTCTG - 17100
      - K C I V I S T S C L C G T S R T G H L S
      - S A L S S V Q A V C V V P A A Q D I C R
      - V H C H Q Y K L F V W Y Q P H R T S V V
17101 - TAGTGCTACTGGACTCAGTTCATTATTCTGTAGTTTAACAGCTGAGTTGGCTCTTAGAGC - 17160
      - * C Y W T Q F I I L * F N S * V G S * S
      - S A T G L S S L F C S L T A E L A L R A
      - V L L D S V H Y S V V * Q L S W L L E L
17161 - TGTAACAATAAGAGGCCAAGCCAAATTTGGTGAATTGTCCATGTTAATTTCTACTAAGTTG - 17220
      - C N N K R P S Q I W * I V H V N F T K L
      - V T I R G Q A K F G E L S M L I S L S *
      - * Q * E A K P N L V N C P C * F H * V E
17221 - AACAATCTTGCTATCCGCATCAACAACCTTGCTGGATTTCCAGAGTGCAGATGCATATGT - 17280
      - N N L A I R I N N L D F P E C R C I C
      - T I L L S A S T T C W I S Q S A D A Y V
      - Q S C Y P H Q Q L A G F P R V Q M H M *
17281 - AAAGGTGTTACCATCACAAGTGTCTTGTAGGTACCATAATCAGGGACAACAACCATGAG - 17340
      - K G V T I T S V L V G T I I R D N N H E
      - K V L P S Q V F L * V P * S G T T T M S
      - R C Y H H K C S C R Y H N Q G Q Q * V
17341 - TTTGGCTGCTGTAGTCAATGGTATGATGTTGAGTGGAAACACAACCATCACGCGCATGT - 17400
      - F G C C S Q W Y D V E W N T T I T R I V
      - L A A V V N G M M L S G T Q P S R A L L
      - W L L * S M V * C * V E H N H H A H C *
17401 - GATAATGTTGTTAAGTGCATCATTATCAAGCTTCCTAAGCATAGTGAAGAGCATTGTTTG - 17460
      - D N V V K C I I I K L P K H S E E H C L
      - I M L L S A S L S S F L S I V K S I V C
      - * C C * V H H Y Q A S * A * * R A L F A
17461 - CATAGCACTAGTTACTTTTGGCCCTCTGTCTCAGATCTTGCCTGTTTGTACATTTGGGT - 17520
      - H S T S Y F C P L V L R S C L F V H L G
      - I A L V T F A L L S S D L A C L Y I W V
      - * H * L L L P S C P Q I L P V C T F G S
17521 - CATAGCCTGATCTGCCATCTTTTCCAACCTTGCGTTGCATGGCAGCATCACGGTCAAAC - 17580
      - H S L I C H L F Q L A L H G S I T V K L
      - I A * S A I F S N L R C M A A S R S N S
      - * P D L P S F P T C V A W Q H H G Q T Q
17581 - AGATTTAGCCACATTCAAAGATTTCTTTAACTTTTGTGAGAACGACTTCAGAATCACCATT - 17640
      - R F S H I Q R F L * L F E N D F R I T I
      - D L A T F K D F F N F L R T T S E S P L
      - I * P H S K I S L T F * E R L Q N H H *

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FIG. 12 Con't

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17641 - AGCTACAGCCTGCTCATAGGCCTCCTGGGCGAGTGGCATAAGCGGCATATGATGGTAAAGA - 17700
      - S Y S L L I G L L G S G I S G I * W * R
      - A T A C S * A S W A V A * A A Y D G K E
      - L Q P A H R P P G Q W H K R H M M V K N
17701 - ACTAAATTCTGAAGCAATAGCCTGAAGAGTAGCACGGTTATCGAGCATTTCCTCGCACAA - 17760
      - T K F * S N S L K S S T V I E H F L A Q
      - L N S E A I A * R V A R L S S I S S H N
      - * I L K Q * P E E * H G Y R A F P R T T
17761 - CCTATTAATGTCTACAGCACCTGCATGGATAGCAAAACAGACAAAAGAGAAACCATCTT - 17820
      - P I N V Y S T L H G * Q N R Q K R N H L
      - L L M S T A P C M D S K T D K R E T I F
      - Y * C L Q H P A W I A K Q T K E K P S S
17821 - CTCGAAAGCTTCAGTTGTGTCTTTTGAAGAAGAATATCATTGTGGAGTTGTACACATTG - 17880
      - L E S F S C V F C K K N I I V E L Y T L
      - S K A S V V S F A R R I S L W S C T H C
      - R K L Q L C L L Q E E Y H C G V V H I V
17881 - TGCCCACAATTTAGAAGATGACTCTACTCTAAGTTGTTGAAGAACCGAGAGCAGTACCAC - 17940
      - C P Q F R R * L Y S K L L K N R E Q Y H
      - A H N L E D D S T L S C * R T E S S T T
      - P T I * K M T L L * V V E E P R A V P Q
17941 - AGATGTGCACCTTTACGTCAGACATTTTAGACTGTACAGTAGCAACCTTGATACATGGTTT - 18000
      - R C A L Y V R H F R L Y S S N L D T W F
      - D V H F T S D I L D C T V A T L I H G L
      - M C T L R Q T F * T V Q * Q P * Y M V Y
18001 - ACCTCCAATACCCAACAACCTTAATGTTAAGCTTGAAAGCATCAATACTACTCTTAGGAGG - 18060
      - T S N T Q Q L N V K L E S I N T T L R R
      - P P I P N N L M L S L K A S I L L L G G
      - L Q Y P T T * C * A * K H Q Y Y S * E A
18061 - CAAAAGCCCCTGGGAGTTCATATACCTAAATTCTTGTGTAGAGACCAAGTAGTCATAAAC - 18120
      - Q K P L G V H I P K F L C R D Q V V I N
      - K S P W E F I Y L N S C V E T K * S * T
      - K A P G S S Y T * I L V * R P S S H K H
18121 - ACCAAGAGTAAGCCTGAAGTAACGGTTGAGTAAACAGAAAAGGCCAAAGTAGCAGCAGCA - 18180
      - T K S K P E V T V E * T E K A K V A A A
      - P R V S L K * R L S K Q K R P K * Q Q Q
      - Q E * A * S N G * V N R K G Q S S S N
18181 - ACAATAGCCTAAGAAACAATAAACAAGCATGATACACTGTAAGGTGTTGCCAGTAATAAA - 18240
      - T I A * E T I N K H D T L * G V A S N K
      - Q * P K K Q * T S M I H C K V L P V I N
      - N S L R N N K Q A * Y T V R C C Q * * I
18241 - TAACAATGGGTAATACTCAACACACACAAACACTATAGCTCTAGCTAAAAACATGATAGT - 18300
      - * Q W V I L N T H K H Y S S S * K H D S
      - N N G * Y S T H T N T I A L A K N M I V
      - T M G N T Q H T Q T L * L * L K T * * S
18301 - CGTAACGACACCAGAATAGTTAGAGGTTACAGAAATAACTAAGGCCACATGGAAATAGC - 18360
      - R N D T R I V R G Y R N N * G P H G N S
      - V T T P E * L E V T E I T K A H M E I A
      - * R H Q N S * R L Q K * L R P T W K * L
18361 - TTGATCTAAAGCATTACCATAGTAGACTTTGTAAACAAGTGTAAATGACATTTCATCAGTGT - 18420
      - L I * S I T I V D F V N K C N D I H Q C
      - * S K A L P * * T L * T S V M T F I S V
      - D L K H Y H S R L C K Q V * * H S S V S
18421 - CCAAACACGTCTAGCAGCATCATATAAACAGTGCAGCTGTCATGAGAATAAGCAAAAC - 18480
      - P N T S S S I I I N S A S C H E N K Q N
      - Q T R L A A S S * T V R A V M R I S K T
      - K H V * Q H H H K Q C E L S * E * A K L

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FIG. 12 Con't

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18481 - TAAAGCTGAAGCATACATAACACAATCCTTAAGCCTATAACCAGACAAGCTAGTGTCAGC - 18540
- * S * S I H N T I L K P I T R Q A S V S
- K A E A Y I T Q S L S L * P D K L V S A
- K L K H T * H N P * A Y N Q T S * C Q P
18541 - CAATTCAAGCCATGTCATGATACGCATCACCCAGCTAGCAGGCATGTAGACCATATTAAA - 18600
- Q F K P C H D T H H P A S R H V D H I K
- N S S H V M I R I T Q L A G M * T I L K
- I Q A M S * Y A S P S * Q A C R P Y * S
18601 - GTAAGCAACTGTTGCAAGAGAAGGTAACAGAAACAAGCACAAGAATGCGTGCTTATGCTT - 18660
- V S N C C K R R * Q K Q A Q E C V L M L
- * A T V A R E G N R N K H K N A C L C L
- K Q L L Q E K V T E T S T R M R A Y A *
18661 - AACCAAGCAGCATAGCACATGCAGCAATTGCCATAATACCAAGAGTAAATGGCAAGAAAGC - 18720
- N K Q H S T C S N C H N T K S K W Q E S
- T S S I A H A A I A I I P R V N G K K A
- Q A A * H M Q Q L P * Y Q E * M A R K H
18721 - ATTCTCGTAAACAAAGAAAAACAGTGACCACTGTGTACTTTGAACAAGAATCAATAGTGA - 18780
- I L V N K E K Q * P L C T L N K N Q * *
- F S * T K K N S D H C V L * T R I N S D
- S R K Q R K T V T T V Y F E Q E S I V M
18781 - TGTCAAGAAAGTTAAAGCATCCAATGATGAGTGCCCTTAACAATTTTCTGAACTTACC - 18840
- C Q E S * K H P M M S A L N N F L E L T
- V K K V K S I Q * * V P L T I F L N L P
- S R K L K A S N D E C P * Q F S * T Y L
18841 - TTGGAAGGTAACACCAGAGCATTGTCTAACAACATCAATGGTGTAAACTCATCTTCTAA - 18900
- L E G N T R A L S N N I K W C K L I F *
- W K V T P E H C L T T S N G V N S S S K
- G R * H Q S I V * Q H Q M V * T H L L K
18901 - AATAGTGCTACCAAGGATAGTACGACCATTCATACCATTCTGCAGCAGCTCTTTCAAAGC - 18960
- N S A T K D S T T I H T I L Q Q L F Q S
- I V L P R I V R P F I P F C S S S F K A
- * C Y Q G * Y D H S Y H S A A A L S K Q
18961 - AGCACACATATCTAAGACGGCAATTCCTGTTGAGCAGAAAGAGGTCCCAATATGTCAAC - 19020
- S T H I * D G N S C L S R K R S Q Y V N
- A H I S K T A I P V * A E R G P N M S T
- H T Y L R R Q F L F E Q K E V P I C Q H
19021 - ATGATCTTGTGTCAAAGGTTTCATAGTTGTACTTCATTGCCACAAGGTTAAAGTCATTCAA - 19080
- M I L C Q R F I V V L H C H K V K V I Q
- * S C V K G S * L Y F I A T R L K S F K
- D L V S K V H S C T S L P Q G * S H S K
19081 - AGTAGTGGTGAATCTATTAAGAAACCACCTATCACCATTGATAACAGCAGCATACAGCCA - 19140
- S S G E S I K K P P I T I D N S S I Q P
- V V V N L L R N H L S P L I T A A Y S H
- * W * I Y * E T T Y H H * * Q Q H T A M
19141 - TGCCAAAACATTTAATGTTATGGTTGTGTCTGTACCTGCAGCCTGTGCAGTTTGTCTGTC - 19200
- C Q N I * C Y G C V C T C S L C S L S V
- A K T F N V M V S V P A A C A V C L S
- P K H L M L W L C L Y L Q P V Q F V C Q
19201 - AACAAATGGACCATAGAATTTACCTTCTAAGTCAGTACCAGCGTGTACTCCTGTTGGAAG - 19260
- N K W T I E F T F * V S T S V Y S C W K
- T N G P * N L P S K S V P A C T P V G S
- Q M D H R I Y L L S Q Y Q R V L L L E A
19261 - CTCCATATGATGCATATAGCAGAAAGACACGCAATCATAATCAATGTTAAACCAACACT - 19320
- L H M M H I A E R H A I I I N V K T N T
- S I * C I * Q K D T Q S * S M L K P T L
- P Y D A Y S R K T R N H N Q C * N Q H Y

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FIG. 12 Con't

19321 - ACCACATGATCCATTAAGGAAAGAACCTTTAATGGTATGATTAGGTCTCATGGCACACTG - 19380
 - T T * S I K E R T F N G M I R S H G T L
 - P H D P L R K E P L M V * L G L M A H *
 - H M I H * G K N L * W Y D * V S W H T D
 19381 - ATAAACACCAGATGGTGAACCATTGTAGCATGCTAGAACTGAAAATGTTTGACCAGGTTG - 19440
 - I N T R W * T I V A C * N * K C L T R L
 - * T P D G E P L * H A R T E N V * P G W
 - K H Q M V N H C S M L E L K M F D Q V G
 19441 - GATACGGACAAAATTTATACTTGGGTGTCTTAGGGTTAGAAGTATCAACTTTAAGCCTAAG - 19500
 - D T D K F I L G C L R V R S I N F K P K
 - I R T N L Y L G V L G L E V S T L S L S
 - Y G Q I Y T W V S * G * K Y Q L * A * A
 19501 - CAGACAATTTTGCATAGAATGGCCAATAACACGAAGTTGAACATTGCCAGCCTGAACAAG - 19560
 - Q T I L H R M A N N T K L N I A S L N K
 - R Q F C I E W P I T R S * T L P A * T R
 - D N F A * N G Q * H E V E H C Q P E Q E
 19561 - AAAGCTATGGTTGGATTTGCGAATGAGCAGATCTTCATAGTTAGGATTAAGCATGTCTTC - 19620
 - K A M V G F A N E Q I F I V R I K H V F
 - K L W L D L R M S R S S * L G L S M S S
 - S Y G W I C E * A D L H S * D * A C L L
 19621 - TGCTGTGCAAATGACATGTCTTGGACAGTATACTGTGTGCATCCAACCACAATCCATTAAG - 19680
 - C C A N D M S W T V Y C V I Q P Q S I K
 - A V Q M T C L G Q Y T V S S N H N P L R
 - L C K * H V L D S I L C H P T T I H * E
 19681 - AGTTGTAGTTCCACAGGTTACTTGTACCATGCACCCTTCAACTTTGCCTGACGGGAATGC - 19740
 - S C S S T G Y L Y H A P F N F A * R E C
 - V V V P Q V T C T M H P S T L P D G N A
 - L * F H R L L V P C T L Q L C L T G M P
 19741 - CATTTTCCTAAAACCACTCTGCAGAACAGCAAGTGATTGATGTCTGTGGTGGTTGGTA - 19800
 - H F P K T T L Q N S R S D * C L W W L V
 - I F L K P L C R T A E V I D V C G G W *
 - F S * N H S A E Q Q K * L M S V V V G R
 19801 - GAGAACATCAGCACCTGAGTTGCTAAAGTCATTTAGAGCCTTTGCTAAGTGGCAGCAAGC - 19860
 - E N I S T * V A K V I * S L C * V A A S
 - R T S A P E L L K S F R A F A K W Q Q A
 - E H Q H L S C * S H L E P L L S G S K L
 19861 - TGCTTCACGATAGCTGGTAGTATCTAAGGCTCCACTGAAATACTTGTACTTGTATATAG - 19920
 - C F T I A G S I * G S T E I L V L V I *
 - A S R * L V V S K A P L K Y L Y L L Y R
 - L H D S W * Y L R L H * N T C T C Y I E
 19921 - AGCAAGATACCTGTTATACTGTGTAAGTGGCAACAGTGTCTCGCTACGCAATTTTAGGTA - 19980
 - S K I P V I L C K W Q Q C L A T Q F * V
 - A R Y L L Y C V S G N S V S L R N F R Y
 - Q D T C Y T V * V A T V S R Y A I L G T
 19981 - CATTTTCCTTGTGAGCAAAAAGGTACACAAAGCAGCCTCCTCGAAGGTACTAAATGTAAC - 20040
 - H F L V E Q K G T Q S S L L E G T K C N
 - I S L L S K K V H K A A S S K V L N V T
 - F P C * A K R Y T K Q P P R R Y * M * L
 20041 - TCCATTAAACATGACTCTTTTCCTAAGATAGTTGTTAAAGAACCAATGGCAGTGCTTCAG - 20100
 - S I K H D S F P K I V V K E P M A V L Q
 - P L N M T L F L R * L L K N Q W Q C F R
 - H * T * L F S * D S C * R T N G S A S E
 20101 - AGAAATACAGAATACATAGATTGCTGTTATCCAAAAGGCACAATAGGAGAAAACATGGC - 20160
 - R N T E Y I D C C Y P K R H N R R K H G
 - E I Q N T * I A V I Q K G T I G E N M A
 - K Y R I H R L L L S K K A Q * E K T W Q

FIG. 12 Con't

20161 - AAACCATTGAAGGTGAGCCAAGAATGAAACATCATTGGTGAAATAGAATGTCAAGTACAA - 20220
 - K P L K V S Q E * N I I G E I E C Q V Q
 - N H * R * A K N E T S L V K * N V K Y K
 - T I E G E P R M K H H W * N R M S S T S
 20221 - GTAAAAGACTGAGTAGACTCCCGGCAGAAAGCTGTAAGCTGGTACCAGACAGAGTATAGT - 20280
 - V K D * V D S R Q K A V S W Y Q T E Y S
 - * K T E * T P G R K L * A G T R Q S I V
 - K R L S R L P A E S C K L V P D R V * *
 20281 - GAAAGACATCAAAAACAAAAGTGCATTAGCAGCAACAACATGGTTGTACTCACCAAAAAC - 20340
 - E R H Q K Q K C I S S N N M V V L T K N
 - K D I K N K S A L A A T T W L Y S P K T
 - K T S K T K V H * Q Q Q H G C T H Q K H
 20341 - ACGTCTGAATTTTCATAAAGTAGTAGGCAGCACAAGTCACCAATATGGCAATAATACCACC - 20400
 - T S E F H K V V G S T S H Q Y G N N T T
 - R L N F I K * * A A Q V T N M A I I P P
 - V * I S * S S R Q H K S P I W Q * Y H Q
 20401 - AGCCACTACTGAAGCAGACACATCTAAAGCACCCACAGGTTGCACAAGAGGAGTAAAGAT - 20460
 - S H Y * S R H I * S T H R L H K R S K D
 - A T T E A D T S K A P T G C T R G V K M
 - P L L K Q T H L K H P Q V A Q E E * R C
 20461 - GTTAGCTATGAGATTCATCGCATCAACACCACAGAAAACCTCTGATAGAGCTCTGTAATG - 20520
 - V S Y E I H R I N T T E N S * * S S V M
 - L A M R F I A S T P Q K T P D R A L * C
 - * L * D S S H Q H H R K L L I E L C N A
 20521 - CTCATTATTAAGAACCCATCTACCACTGGTAGATAGGCAAATACCTACTTCTGACCTTTC - 20580
 - L I I K N P S T T G R * A N T Y F * P F
 - S L L R T H L P L V D R Q I P T S D L S
 - H Y * E P I Y H W * I G K Y L L T F R
 20581 - GCATGTACCATGTCTACAGTACTCAGCATCAAAAGTTGTACTACTCTAACAGAACCCTC - 20640
 - A C T M S T V L S I K S C Y Y S N R T L
 - H V P C L Q Y S A S K V V T T L T E P S
 - M Y H V Y S T Q H Q K L L L L * Q N P P
 20641 - CAGGTAAGTGTTAGGAAACTGTATGATGAACCATCCATAAGCACATAACGAGTGTCTGG - 20700
 - Q V S V R K L Y D G T I H K H I T S V W
 - R * V L G N C M M E P S I S T * R V S G
 - G K C * E T V * W N H P * A H N E C L D
 20701 - ACGAAGCTCACTATAAGAAATAGAACCCTCTAGCAAATTAGTGTCTATAACAATATGGCAC - 20760
 - T K L T I R N R T L * Q I S V I T I W H
 - R S S L * E I E P S S K L V S * Q Y G T
 - E A H Y K K * N P L A N * C H N N M A Q
 20761 - AGGTTTGCCCATAGCATCCTTAAAAATTGTACACTCAGCAGCAAGAACGCAAGCAGAGGT - 20820
 - R F A H S I L K N C T L S S K N A S R G
 - G L P I A S L K I V H S A A R T Q A E V
 - V C P * H P * K L Y T Q Q Q E R K Q R *
 20821 - AGCAAAATCACTATACTCAATGAGTTTGGGAAGGTGTGTAGCAAATGTTGCCAACAGCACT - 20880
 - S K I T I L N E F G R C V A N V A N S T
 - A K S L Y S M S L E G V * Q M L P T A L
 - Q N H Y T Q * V W K V C S K C C Q Q H *
 20881 - AAAAACACGAGGTAGAAAATGCAAGAAGTCACCATTGATTGCTCTCAGCACAGTACCCGG - 20940
 - K N T R * K M Q E V T I D C S Q H S T R
 - K T R G R K C K K S P L I A L S T V P G
 - K H E V E N A R S H H * L L S A Q Y P V
 20941 - TAAGCCAGGCACTATGAAACCAATCTCTTGTAAATGATAGCAGCTACTACAGGGCAGCT - 21000
 - * A R H Y E T N L S C N D S S Y Y R A A
 - K P G T M K P I S L V M I A A T T G Q L
 - S Q A L * N Q S L L * * * Q L L Q G S F

FIG. 12 Con't

21001 - TTTGTCATTTTTGTATGAACCACCACGCTGGCTAAACCATGCGTCAAAACCAGCATGTTT - 21060
 - F V I F V * T T T L A K P C V K T S M F
 - L S F L Y E P P R W L N H A S K P A C L
 - C H F C M N H H A G * T M R Q N Q H V Y
 21061 - ATTTGCAAAACAATCATCAGTAGAAATGATGTCACGAGTGACACCATCCTGAATGGCTTT - 21120
 - I C K T I I S R N D V T S D T I L N G F
 - F A K Q S S V E M M S R V T P S * M A L
 - L Q N N H Q * K * C H E * H H P E W L C
 21121 - GTAACCAATGATTTTCATTTGTGTAACCATCATGGATTGACAATGTATGTACTGGCATAAC - 21180
 - V T N D F I C V T I M D * Q C M Y W H N
 - * P M I S F V * P S W I D N V C T G I T
 - N Q * F H L C N H S H G L T M Y V L A * R
 21181 - GATATAACAAACCAATGCAGCAAGAACGCACAATAATGTGGCCTTAAGCATAAGTTTAAA - 21240
 - D I T N Q C S K N A Q * C G L K H K F K
 - I * Q T N A A R T H N N V A L S I S L K
 - Y N K P M Q Q E R T I M W P * A * V * N
 21241 - ACAAGTACTAACAATCTTACCACCCTTGAGTGAGATTTTAGTAGTTATGACATTGACAAC - 21300
 - T S T N N L T T L E * D F S S Y D I D N
 - Q V L T I L P P L S E I L V V M T L T T
 - K Y * Q S Y H P * V R F * * L * H * Q P
 21301 - CTGTCTAGTTGTAGCACAAGTTAGTGTAAGGATGTTGTTCTTCTTGGCAGCAGTACG - 21360
 - L S S C S T S * C K R Y V V L L G S S T
 - C L V V A Q V S V K G M L F F L A A V R
 - V * L * H K L V * K V C C S S W Q Q Y E
 21361 - AATTTGTTTACGCAGCTGTTTCAGATAAAGACATGTAGTCTTTTACATTCCAGATGAGTGA - 21420
 - N L F T Q L F R * R H V V F Y I P D E *
 - I C L R S C S D K D M * S F T F Q M S E
 - F V Y A A V Q I K T C S L L H S R * V K
 21421 - AACATTGTGACTTTTTGCTACTTGGGCATTGATATGCCTTGCATTACAGTCAATACATGC - 21480
 - N I V T F C Y L G I D M P C I T V N T C
 - T L * L F A T W A L I C L A L Q S I H A
 - H C D F L L L G H * Y A L H Y S Q Y M R
 21481 - GCCAAGATCTCTGGGCGTCATGTTTTCAACCTTATTATAGGTGAGCATGAAATTGTTACA - 21540
 - A K I S G R H V F N L I I G E H E I V T
 - P R S L G V M F S T L L * V S M K L L Q
 - Q D L W A S C F Q P Y Y R * A * N C Y N
 21541 - ACTGTCACCTGTCACTTCTAAGTCAGAGTGATGTGAAAGTTTGAGACATTCAATAACATC - 21600
 - T V T C H F * V R V M * K F E T F N N I
 - L S P V T S K S E * C E S L R H S I T S
 - C H L S L L S Q S D V K V * D I Q * H P
 21601 - CTTTGTGTCAACATCGGTATCAACAACACCTTGTCGGGCAGCTGACACGAATGTAGAAAG - 21660
 - L C V N I G I N N T L S G S * H E C R K
 - F V S T S V S T T P C R A A D T N V E R
 - L C Q H R Y Q Q H L V G Q L T R M * K G
 21661 - GACACCATCTAAAGCTACACCCTTTGCTAACTCGCTGTGAGCTGTAGCAACAAGTGCCTT - 21720
 - D T I * S Y T L C * L A V S C S N K C L
 - T P S K A T P F A N S L * A V A T S A L
 - H H L K L H P L L T R C E L * Q Q V P *
 21721 - AAGTTTTTCCATAGGAACACTAAAAGTTGCTGAAAAGGTGTCGACATAAGCATCAAACAT - 21780
 - K F F H R N T K S C * K G V D I S I K H
 - S F S I G T L K V A E K V S T * A S N I
 - V F P * E H * K L L K R C R H K H Q T S
 21781 - CTTAACGGAACTTCAGTACTATCTCCAACGTTTGATACAAGAGCTTGGTCAAGCAACAG - 21840
 - L N G N F S T I S N V * Y K S L V K Q Q
 - L T E T S V L S P T F D T R A W S S N R
 - * R K L Q Y Y L Q R L I Q E L G Q A T E

FIG. 12 Con't

21841 - AATAGGTTGGCACATCAGCTGACTGTAGTACACAGAAGCAGACTTAGAAGCAGACTCGTC - 21900
 - N R L A H Q L T V V H R S R L R S R L V
 - I G W H I S * L * Y T E A D L E A D S S
 - * V G T S A D C S T Q K Q T * K Q T R R
 21901 - GCATTTGGACTTGCCATCAAAAATGACATTAATAGGCAGTGAACCTTTAGTGTGTGTT - 21960
 - A F G L A I K N Y D I N R Q * T F S V V
 - H L D L P S K T M T L I G S E P L V L L
 - I W T C H Q K L * H * * A V N L * C C *
 21961 - AGCTCTCAAATTGTCTAAATTGACAAAATGGGAGAGCGGATGTCTCTCATAGGTCTTTTG - 22020
 - S S Q I V * I D K M G E R M S L I G L L
 - A L K L S K L T K W E S G C L S * V F *
 - L S N C L N * Q N G R A D V S H R S F D
 22021 - ACCAGCCTTGTCAAAGTAGAGGTGAAGCGCGCCATTTTTCACAGCAACACTATCAACAAT - 22080
 - T S L V K V E V K R A I F H S N T I N N
 - P A L S K * R * S A P F F T A T L S T I
 - Q P C Q S R G E A R H F S Q Q H Y Q Q Y
 22081 - ATACGATGACTGGTCAGTAGGGTTGATTGGTCTTTTAAACTGGAGTGACAAATCACGAGC - 22140
 - I R * L V S R V D W S F K L E * Q I T S
 - Y D D W S V G L I G L L N W S D K S R A
 - T M T G Q * G * L V F * T G V T N H E Q
 22141 - AACTTCATCACTAATGAATGTACTACCACTGCAAAATGTGTCACAATTGAGACAATTCCA - 22200
 - N F I T N E C T T S A K C V T I E T I P
 - T S S L M N V L P V Q N V S Q L R Q F Q
 - L H H * * M Y Y Q C K M C H N * D N S N
 22201 - ATGTGTGAGTCTTGCAGAAGCCACGGCTCCATTTGCATAGACATAGAAAGATCTCTTCAT - 22260
 - I V S L A E A T A S I C I D I E R S L H
 - L * V L Q K P R P P F A * T * K D L F M
 - C E S C R S H G L H L H R H R K I S S C
 22261 - GCCATTAAACAATAGTTGTACTCAACTCAACGCGTGTGGCAGATTGCGCTTATAGCACATCAT - 22320
 - A I N N S C T L N A C G T I A L I A H H
 - P L T I V V H S T R V A R L R L * H I M
 - H * Q * L Y T Q R V W H D C A Y S T S C
 22321 - GCAAGTCAAGAGGTGCAACCATCCATGATATGAACATAGCTCTTCCATATGTAGTAGAA - 22380
 - A S R R G A T I H D M N I A L P Y V V E
 - Q V E E V Q P S M I * T * L F H M * * K
 - K S K R C N H P * Y E H S S S I C S R K
 22381 - AGAAGCAAAGAAGATGTACATCCTAACCATTGCAGAAACGGGTGCCATTTGTACAATACT - 22440
 - R S K E D V H P N H C R N G C H L Y N T
 - E A K K M Y I L T I A E T G A I C T I L
 - K Q R R C T S * P L Q K R V P F V Q Y *
 22441 - AATGATAAACCACATGAGCCAAGAATTGCTGATGAAATGACTAGCAAAATAGCCAAAGAA - 22500
 - N D K P H E P R I A D E M T S K I A K E
 - M I N H M S Q E L L M K * L A K * P K N
 - * * T T * A K N C * * N D * Q N S Q R T
 22501 - CACCTGCATTATAGCTGAAAGACCTAATAAATAAAAGAATTTGTGAACAACATATATGC - 22560
 - H L H Y S * K T * * I K E F C E Q H I C
 - T C I I A E R P N K * K N F V N N I Y A
 - P A L * L K D L I N K R I L * T T Y M P
 22561 - CAAAACCCACTCAGCGCCAGACCTAAAATTGTCAAGTCTAGCTTGTACGATGAAATCGT - 22620
 - Q N P L S G Q T * N C Q V * L V R * N R
 - K T H S A A R P K I V K S S L Y D E I V
 - K P T Q R P D L K L S S L A C T M K S S
 22621 - CACCTGAATGGTTTCAAGAGCTGGATAAGAATCAAGGGAGTCTAATCCACTTAAACAAAT - 22680
 - H L N G F K S W I R I K G V * S T * T N
 - T * M V S R A G * E S R E S N P L K Q M
 - P E W F Q E L D K N Q G S L I H L N K C

FIG. 12 Con't

22681 - GCTGCAAGGAAAAGAACCTTCACAGAAATCCATAGTAGTAACGTTAGACGAATTAAGATA - 22740
 - A A R K R T F T E I H S S N V R R I K I
 - L Q G K E P S Q K S I V V T L D E L R Y
 - C K E K N L H R N P * * * R * T N * D T
 22741 - CAATTCTCTAACGCCATTACAATAAGAAGGAGCACCAAAATTAGATAAGAGTACACCAA - 22800
 - Q F S N A I T I R R S T K I R * E Y T K
 - N S L T P L Q * E G A P K L D K S T P K
 - I L * R H Y N K K E H Q N * I R V H Q K
 22801 - AGCAGCAGTTACACAGATTAGAGAACCTAAGCAAATACTTAACAACAATAGCCACATAGC - 22860
 - S S S Y T D * R T * A N T * Q Q * P H S
 - A A V T Q I R E P K Q I L N N N S H I A
 - Q Q L H R L E N L S K Y L T T I A T * R
 22861 - GATTGTGAACAATTTAGAAAATTTGGGTGACTTCACATAATTAATGCCGGCATCCAAACA - 22920
 - D C E Q F R K F G * L H I I N A G I Q T
 - I V N N L E N L G D F T * L M P A S K H
 - L * T I * K I W V T S H N * C R H P N I
 22921 - TAATTTAGCAACACTCTTAACACTATTTTGTAGCAATAGTTGTAGGTAGTGAAGCTCTAAT - 22980
 - * F S N T L N T I F S N S C R * * S S N
 - N L A T L L T L F L A I V V G S E A L I
 - I * Q H S * H Y F * Q * L * V V K L * F
 22981 - TCTAGAATTGGTACTTTTAGTAAAAGTACACAATTGGAACAATAATGTAAACACATAAGG - 23040
 - S R I G T F S K S T Q L E Q * C K H I R
 - L E L V L L V K V H N W N N N V N T * G
 - * N W Y F * * K Y T I G T I M * T H K A
 23041 - CATATAATTGTTAAACACACGTTGTGCTAATCTCTTAGCGCAATTTGATGTTGTAATTGC - 23100
 - H I I V K H T L C * S L S A I * C C N C
 - I * L L N T R C A N L L A Q F D V V I A
 - Y N C * T H V V L I S * R N L M L * L L
 23101 - TGCTTGTCTAAGAATGGTTTGACATAAGCCAAAATTTACTCCAAGGAACACTATTAAT - 23160
 - C L S * E W F D I S Q N F T P R N T I N
 - A C P K N G L T * A K I L L Q G T L L I
 - L V L R M V * H K P K F Y S K E H Y * L
 23161 - TGCAGCAATACCATGAGTGGCAATTGTTTTAAACCTAAGGCTAGTGAAGCTCATTAGG - 23220
 - C S N T M S G N C F * T * G * * K L I R
 - A A I P * V A I V F K P K A S E S S L G
 - Q Q Y H E W Q L F L N L R L V K A H * V
 23221 - TTTCTTAATGGTAATGCTTGTGTTTTCCACATAAGCAGCCATAAGATCCTCATGACCTAA - 23280
 - F L N G N A C V F H I S S H K I L M T *
 - F L M V M L V F S T * A A I R S S * P N
 - S * W * C L C F P H K Q P * D P H D L T
 23281 - CTCTTGTGTTACTTTAACACCTTCATCTGATGGTTTAAGTATGACATTGCCTACAACCTC - 23340
 - L L C Y F N T F I * W F K Y D I A Y N F
 - S C V T L T P S S D G L S M T L P T T S
 - L V L L * H L H L M V * V * H C L Q L R
 23341 - GGTAGTTTTACGTCACACTCTATGACTTCCTTCTGTATGGTAGGATTTCCACTACTTC - 23400
 - G S F H V T L Y D F L L Y G R I F H Y F
 - V V F T S H S M T S F C M V G F S T T S
 - * F S R H T L * L P S V W * D F P L L L
 23401 - TTCAGAGGTGGGTTGTTGACTTTTACAAGCAAGATTGTCCATTCTTGTGTGTCTTCTAC - 23460
 - F R G G L L T F T S K I V H S L C V F Y
 - S E V G C * L S Q A R L S I P C V S S T
 - Q R W V V D F H K Q D C P F L V C L L L
 23461 - TGCCAGAACTTCAAATGAATTTGAAGTATCTACTGGCTTTGTACTCCAAAGACAACGTAA - 23520
 - C Q N F K * I * S I Y W L C T P K T T *
 - A R T S N E F E V S T G F V L Q R Q R K
 - P E L Q M N L K Y L L A L Y S K D N V N

FIG. 12 Con't

23521 - ACACCAAGTGTGTTGGTTTGAACGTTGTCTTGGTTGTAGCCTGGTTAATGTGCCAAACAAT - 23580
 - T P S V W F E R C L G C S L V N V P N N
 - H Q V F G L N V V L V V A W L M C Q T I
 - T K C L V * T L S W L * P G * C A K Q L
 23581 - TGGCTTATGCAGTAATTTAGCACCTTTCTTGAAACTCGCTGAATAGTGTCTATAGTCAAT - 23640
 - W L M Q * F S T F L E T R * I V S I V N
 - G L C S N L A P F L K L A E * C L * S I
 - A Y A V I * H L S * N S L N S V Y S Q *
 23641 - AGCCACTACATCGCCATTCAAGTCTGGGAAGAATGTGACAGATAGCTCTCGTGAAGCTGG - 23700
 - S H Y I A I Q V W E E C D R * L S * S W
 - A T T S P F K S G K N V T D S S R E A G
 - P L H R H S S L G R M * Q I A L V K L A
 23701 - CTTTGTGAAGCCTGTCATTTGATTTAAATCATCAGCAAATTTTGTGTTAGAACATGTGAG - 23760
 - L C E A C H L I * I I S K F C V R T C E
 - F V K P V I * F K S S A N F V L E H V S
 - L * S L S F D L N H Q Q I L C * N M * V
 23761 - TTTGAAATTATCAAAACTCGCATTGTTGGTAATGGTTGAGTTGGTACAAGGTCTATAGGCTG - 23820
 - F E I I K T R I W * W L S W Y K V Y R L
 - L K L S K L A F G N G * V G T R S I G C
 - * N Y Q N S H L V M V E L V Q G L * A A
 23821 - CTCTGTATAGTAAGCATTATCCTTTTATAATACCCATCCAATTTTGGTTCAATCTCTGT - 23880
 - L C I V S I I L F I I P I Q F W F N L C
 - S V * * A L S F L * Y P S N F G S I S V
 - L Y S K H Y P F Y N T H P I L V Q S L C
 23881 - GTAAGTAAGTCCATCGAGTTTATACGACACAGGCTTGATGGTTGTAGTGTAAGATGTTTC - 23940
 - V S N S I E F I R H R L D G C S V R C F
 - * V T P S S L Y D T G L M V V V * D V S
 - K * L H R V Y T T Q A * W L * C K M F P
 23941 - CTTGTAGAAAACATCAGTCACTGGTCTTTGTACTCTGACATCTTTGTAAGGTGAGCTCC - 24000
 - L V E N I S H W S F V L * H L C K V S S
 - L * K T S V T G P L Y S D I F V R * A P
 - C R K H Q S L V L C T L T S L * G E L R
 24001 - GTCAATACGATAGAGGGTCTCCTTAGCAGTTATATGAGTGTAATGACCACACTGATAGTT - 24060
 - V N T I E G L L S S Y M S V M T T L I V
 - S I R * R V S L A V I * V * * P H * * L
 - Q Y D R G S P * Q L Y E C N D H T D S Y
 24061 - ACCAGTGTACTCATTCGCACATAAGAATGTACCTTGCTGTAATTTATACTCAGCAGGTGG - 24120
 - T S V L I R T * E C T L L * F I L S R W
 - P V Y S F A H K N V P C C N L Y S A G G
 - Q C T H S H I R M Y L A V I Y T Q Q V V
 24121 - TGCAGACATCATAACAAAAGAAGACTCTTGTGTACTAGATATTGTGTAGCATCACGACC - 24180
 - C R H H N K R R L L L Y * I L C S I T T
 - A D I I T K E D S C C T R Y C V A S R P
 - Q T S * Q K K T L V V L D I V * H H D H
 24181 - ACACACACATGGAATGGAAACACCTGTCTTAAGATTATCATAAGATAGAGTACCCATATA - 24240
 - T H T W N G N T C L K I I I R * S T H I
 - H T H G M E T P V L R L S * D R V P I Y
 - T H M E W K H L S * D Y H K I E Y P Y T
 24241 - CATCACAGCTTCTACACCCGTTAAGGTAGTAGTTTCTGACCACAATGTTTACACACCAC - 24300
 - H H S F Y T R * G S S F L T T M F T H H
 - I T A S T P V K V V V F * P Q C L H T T
 - S Q L L H P L R * * F S D H N V Y T P H
 24301 - ATTAAGAACTCGCTTTGCAGATTCAAATTAGCATGCTGTAGAAGATGGGTCATAGTTTC - 24360
 - I K N S L C R F Q I S M L * K M G H S F
 - L R T R F A D S K L A C C R R W V I V S
 - * E L A L Q I P N * H A V E D G S * F L

FIG. 12 Con't

24361 - TCTGACATCACCAAGCTCGCCAACAGTTTTATTACTGTAAGCGAGTATGAGTGCACAAAA - 24420
 - S D I T K L A N S F I T V S E Y E C T K
 - L T S P S S P T V L L L * A S M S A Q K
 - * H H Q A R Q Q F Y Y C K R V * V H K S
 24421 - GTTAGCAGCATCACCGACGGGCTCTATAATAAGCCTCTTGAAGTGCTGGTGCATTGAA - 24480
 - V S S I T S T G S I I S L L K C W C I E
 - L A A S P A R A L * * A S * S A G A L N
 - * Q H H Q H G L Y N K P L E V L V H * I
 24481 - TTTGACTTCAAGCTGTTGAAGTGCTAATAAAACACTAGACAAATAACAATTGTTATCAGC - 24540
 - F D F K L L K C * * N T R Q I T I V I S
 - L T S S C * S A N K T L D K * Q L L S A
 - * L Q A V E V L I K H * T N N N C Y Q P
 24541 - CCATTTAATTGAAGTTAAACCACCAACTTGAGGAAATTTCCATTTCTTTGTGTGGTTTAA - 24600
 - P F N * S * T T N L R K F P F L C V V *
 - H L I E V K P P T * G N F H F F V W F K
 - I * L K L N H Q L E E I S I S L C G L K
 24601 - AGCAGACATGTACCTACCAAGAAAACCTCTCATCAAGAGTATGGTAGTACTCGAAAGCTTC - 24660
 - S R H V P T K K T L I K S M V V L E S F
 - A D M Y L P R K L S S R V W * Y S K A S
 - Q T C T Y Q E N S H Q E Y G S T R K L H
 24661 - ACTACGTAGTGTGTCATCACTAGGTAGTACAAAGAAAGTCTTACCCTCATGATTTACATG - 24720
 - T T * C V I T R * Y K E S L T L M I Y M
 - L R S V S S L G S T K K V L P S * F T *
 - Y V V C H H * V V Q R K S Y P H D L H E
 24721 - AGGTTTAATTTTTGTAACATCAGCACCATCCAAGTATGTTGGACCAAACCTGCTGTCCATA - 24780
 - R F N F C N I S T I Q V C W T K L L S I
 - G L I F V T S A P S K Y V G P N C C P Y
 - V * F L * H Q H H P S M L D Q T A V H M
 24781 - TGTCATAGACATATCCACAAGCTGTGTGGAGATTAGTGTGTGCCAGTTGTGAACAC - 24840
 - C H R H I H K L C V E I S V V H S C E H
 - V I D I S T S C V W R L V L S T V V N T
 - S * T Y P Q A V C G D * C C P Q L * T L
 24841 - TTTTATAGTCTTAACCTCCCGCAGGGATAAGAGACTCTTTAGTTTGTCAAGTGAAAGAAC - 24900
 - F Y S L N L P Q G * E T L * F V K * K N
 - F I V L T S R R D K R L F S L S S E R T
 - L * S * P P A G I R D S L V C Q V K E P
 24901 - CTCACCGTCAAGATGAAACTCGACGGGGCTCTCCAGAGTGTGGTACACAATTTTGTCAACC - 24960
 - L T V K M K L D G A L Q S V V H N F V T
 - S P S R * N S T G L S R V W Y T I L S P
 - H R Q D E T R R G S P E C G T Q F C H H
 24961 - ACGCTTAAGAAATTCAACACCTAAGTCTGTACGCTGTCTGAATAGGACCAATCTCTGTA - 25020
 - T L K K F N T * L C T L S * I G P I S V
 - R L R N S T P N S V R C P E * D Q S L *
 - A * E I Q H L T L Y A V L N R T N L C K
 25021 - AGAGCCAGCCAAAGAAACTGTTTCTACAAAGTGCTCCTCAGATGTCTTTGATGACGAAGT - 25080
 - R A S Q R N C F Y K V L L R C L * * R S
 - E P A K E T V S T K C S S D V F D D E V
 - S Q P K K L F L Q S A P Q M S L M T K *
 25081 - GAGGTATCCATTATATGTAGTAACAGCATCTGGTGATGATACTGACACTACGGCAGGAGC - 25140
 - E V S I I C S N S I W * * Y * H Y G R S
 - R Y P L Y V V T A S G D D T D T T A G A
 - G I H Y M * * Q H L V M I L T L R Q E L
 25141 - TTTAAGAGAACGCATACAGCGCGCAGCCTCTTCAAGATTAAAACCATGTGTACATAACC - 25200
 - F K R T H T A R S L F K I K T M C H I T
 - L R E R I Q R A A S S R L K P C V T * P
 - * E N A Y S A Q P L Q D * N H V S H N Q

FIG. 12 Con't

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25201 - AATTGGCATTGTGACAAGCGGCTCATTTAGAGAGTTTCAGCTTCGTAATAATAGAAGCTAC - 25260
      - N W H C D K R L I * R V Q L R N N R S Y
      - I G I V T S G S F R E F S F V I I E A T
      - L A L * Q A A H L E S S A S * * * K L Q
25261 - AGGCTCTTTACTAGTATAAAAGAAGAATCGGACACCATAGTCAACGATGCCCTCTTGAAT - 25320
      - R L F T S I K E E S D T I V N D A L L N
      - G S L L V * K K N R T P * S T M P S * I
      - A L Y * Y K R R I G H H S Q R C P L E F
25321 - TTTAATTCCTTTTATACTTACGTTGGATGGTTGCCATTATGGCTCTAACATCCATGCATAT - 25380
      - F N S F I L T L D G C H Y G S N I H A Y
      - L I P L Y L R W M V A I M A L T S M H I
      - * F L Y T Y V G W L P L W L * H P C I *
25381 - AGGCATTAATTTTCTTGTCTCTTCAGCATGAGCAAGCATTCTCTCAAATTCAGGATAC - 25440
      - R H * F S C L F S M S K H F S Q I P G Y
      - G I N F L V S S A * A S I S L K F Q D T
      - A L I F L S L Q H E Q A F L S N S R I Q
25441 - AGTTCCTAGAAATCTCTTCCTTAGCATTAGGTGCTTCTGAAGGTAGTACATAAAATGCAGA - 25500
      - S S * N L F L S I R C F * R * Y I K C R
      - V P R I S S L A L G A S E G S T * N A D
      - F L E S L P * H * V L L K V V H K M Q I
25501 - TTTGCATTTTCTTAAGAGCAGTCTTAGCTTCCTCAAGTGATAACCAGCACATCCTTGTCC - 25560
      - F A F L K S S L S F L K C I T S T S L S
      - L H F L R A V L A S S S V * P A H P C P
      - C I S * E Q S * L P Q V Y N Q H I L V Q
25561 - AGGGTACGTGGTTATATACTCATCAACTGGCACTTTCTTCAAAGCTCTTGAGAGCATCTC - 25620
      - R V R G Y I L I N W H F L Q S S * E H L
      - G Y V V I Y S S T G T F F K A L E S I S
      - G T W L Y T H Q L A L S S K L L R A S Q
25621 - AGTAGTGCCACCAGCCTTTTGGAGGGTATTACAACACAAGTGATATCACCAGTAGTGAT - 25680
      - S S A T S L F G G Y Y N T S D I T T S D
      - V V P P A F L E G I T T Q V I S P L V I
      - * C H Q P F W R V L Q H K * Y H H * * *
25681 - AACATCACCTACCATGTAAGGTGCATCCTTCTCAAGGAAAGACATATCTTCACCTCTAAG - 25740
      - N I T Y H V R C I L L K E R H I F T S K
      - T S P T M * G A S F S R K D I S S P L S
      - H H L P C K V H P S Q G K T Y L H L * A
25741 - CATGTTCTGAGAATCATGGTAAAGCTTACCATTGATATCAGCAAACAAGAGTAACTTATT - 25800
      - H V L R I M V K L T I D I S K Q E * L I
      - M F * E S W * S L P L I S A N K S N L L
      - C S E N H G K A Y H * Y Q Q T R V T Y W
25801 - GGTAAGAAACTTAGTTTCTTCCAGTGTTGTGGTAACCTCATCAATGCAGGCCTTAATTTT - 25860
      - G K K L S F F Q C C G N L I N A G L N F
      - V R N L V S S S V V V T S S M Q A L I F
      - * E T * F L P V L W * P H Q C R P * F L
25861 - TGGCTTCACATCGACAGGCTTCTGTACGACAGATTCTCCTCAGTTTTGGAATCTTCTGT - 25920
      - W L H I D R L L Y D R F L L S F G I F C
      - G F T S T G F C T T D F S S V L E S S V
      - A S H R Q A S V R Q I S P Q F W N L L C
25921 - GTTTGGTGGCTCCTCTTGTTTAGGTGCTTCCACTCTAGGCTTCAGGTTATCAAGATAATC - 25980
      - V W W L L L F R C F H S R L Q V I K I I
      - F G G S S C L G A S T L G F R L S R * S
      - L V A P L V * V L P L * A S G Y Q D N P
25981 - CATGACAACCTGCTCATAAAGAGCTTTGTGATTGACTGCAATATAAACCTGTGTACGAAC - 26040
      - H D N L L I K S F V I D C N I N L C T N
      - M T T C S * R A L S L T A I * T C V R T
      - * Q P A H K E L C H * L Q Y K P V Y E P

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FIG. 12 Con't

26041 - CGTCTGCACGCACACTTGTAAAGACTGAAGTGGTTTAGCACCAAATATGCCTGCTGACAA - 26100
 - R L H A H L * R L K W F S T K Y A C * Q
 - V C T H T C K D * S G L A P N M P A D N
 - S A R T L V K T E V V * H Q I C L L T T
 26101 - CAATGGTGCAAGTAAGATGTCCTGTGAATTGAAATTTTCATATGCTGCCTTAAGAAGCTG - 26160
 - Q W C K * D V L * I E I F I C C L K K L
 - N G A S K M S C E L K F S Y A A L R S W
 - M V Q V R C P V N * N F H M L P * E A G
 26161 - GATGTCCTCACCTGCATTTAGGTTAGGTCCAACAACATGCAGACACTTCTTAGCAAGATT - 26220
 - D V L T C I * V R S N N M Q T L L S K I
 - M S S P A F R L G P T T C R H F L A R L
 - C P H L H L G * V Q Q H A D T S * Q D Y
 26221 - ATGTCCAGAAAGCAAACAAGACCCTCTACTGTAAGAGGGCCATTTAGCTTAATGTAATC - 26280
 - M S R K Q T R P S Y C K R A I * L N V I
 - C P E S K Q D P P T V R G P F S L M * S
 - V Q K A N K T L L L * E G H L A * C N H
 26281 - ATCACTCTCCTTTTGCATGGCACCATTGGTTGCCTTGTTGAGTGCACCTGCTACACCACC - 26340
 - I T L L L H G T I G C L V E C T C Y T T
 - S L S F C M A P L V A L L S A P A T P P
 - H S P F A W H H W L P C * V H L L H H H
 26341 - ACCATGTTTCAGGTGTATGTTAGCAGCATTACAAATCACCATAGGATTAGCACTTTGTGC - 26400
 - T M F Q V Y V S S I Y N H H R I S T L C
 - P C F R C M L A A F T I T I G L A L C A
 - H V S G V C * Q H L Q S P * D * H F V P
 26401 - CTCCTTAACGATGTCAACACATTTAATGGCAACATTGTCAGTAAGTTTTAAATAACCACT - 26460
 - L L N D V N T F N G N I V S K F * I T S
 - S L T M S T H L M A T L S V S F K * P V
 - P * R C Q H I * W Q H C Q * V L N N Q *
 26461 - AAAGTGAATAACTGGTTCTTCAGGTGTAGGTTCTGGTTCTGGCTCAATCTCTGATTGCTC - 26520
 - K L I N W F F R C R F W F W L N L * L L
 - N * L T G S S G V G S G S G S I S D C S
 - T D * L V L Q V * V L V L A Q S L I A Q
 26521 - AGTAGTATCATCCAGCCAGTCTTCTCTTCTTCTTCTCAACTCGAACTGTTTCAGCTGA - 26580
 - S S I I Q P V F L F F F L N S N C F S *
 - V V S S S Q S S S S S S S T R T V S A E
 - * Y H P A S L P L L L P Q L E L F Q L R
 26581 - GGCACCAAATTCAGAGGGAGACCTTGATAATCATCCTCTGTACCGTACTCATGTTTCA - 26640
 - G T K F Q R E T L I I I L C T V L M F T
 - A P N S R G R P * * S S S V P Y S C S Q
 - H Q I P E G D L D N H P L Y R T H V H R
 26641 - GGTTCATCAATTTCTTCTTCTCCTCACACTCTGCATCGTCTCTTCTTCTCCTCATCTGGAGG - 26700
 - G F I N F F F L T L C I V L F F L I W R
 - V S S I S S S S H S A S S S S S S S G G
 - F H Q F L L P H T L H R P L L P H L E G
 26701 - GTAAAAGGAACAATACATACGTGATGAAAAGTTTTCTTCACCAGCATCATCAAATAAGTA - 26760
 - V K G T I H T * * K V F F T S I I K * V
 - * K E Q Y I R D E K F S S P A S S N K *
 - K R N N T Y V M K S F L H Q H H Q I S R
 26761 - GAATGTAGCTACACTCCACTCATCAAGATCAATACCCATGTTGGTAAGGAGATCAGAAAC - 26820
 - E C S Y T P L I K I N T H V G K E I R N
 - N V A T L H S S R S I P M L V R R S E T
 - M * L H S T H Q D Q Y P C W * G D Q K L
 26821 - TGGTTGTAAAGTCTTCACAACAGCCTCTGCTACAACACATGCAAACCTCAGTAACCTCGGT - 26880
 - W L * S L H N S L C Y N T C K L S N F G
 - G C K V F T T A S A T T H A N S V T S V
 - V V K S S Q Q P L L Q H M Q T Q * L R Y

FIG. 12 Con't

26881 - ACCGGATTCAACAGTGTAGACAGAGCACTTTTCATTAAGCACTTTGTCAACACGTTTCATC - 26940
 - T G F N S V D R A L F I K H F V N T F I
 - P D S T V * T E H F S L S T L S T R S S
 - R I Q Q C R Q S T F H * A L C Q H V H Q
 26941 - AAGCTCAAATGTGATTCTCACATTCTTGTAACCTTGAACCTCCCAAACAGTATCTTCTCC - 27000
 - K L K C D S H I L V T L N F P N S I F S
 - S S N V I L T F L * P * T S Q T V S S P
 - A Q M * F S H S C N L E L P K Q Y L L Q
 27001 - AAAGGTTACACCTTTAATTGGTGCACCCCTTTTAAGCGAAAGACATTGTTTGTAGCCAG - 27060
 - K G Y T F N W C T P F * A K D I V C S Q
 - K V T P L I G A P P F K R K T L F V A S
 - R L H L * L V H P L L S E R H C L * P V
 27061 - TAAACCAGGAGACAATGCGCAGTATTGTTCTTTGTCCTTAATCTCTAAGAGCATGAGGCC - 27120
 - * T R R Q C A V L F F V L N L * E H E A
 - K P G D N A Q Y C S L S L I S K S M R P
 - N Q E T M R S I V L C P * S L R A * G H
 27121 - ATTTACACAGACTGGTGTGCCGACGATAGCTCCATTTGTGAAGCTATCAACGGGCGTCTC - 27180
 - I Y T D W C A D D S S I C E A I N G R L
 - F T Q T G V P T I A P F V K L S T G V S
 - L H R L V C R R * L H L * S Y Q R A S R
 27181 - GAGTGCTTCGAGTTCACCGTTCTTGAGAACAACCTCCTCAGAGGTAAGTACTGTGTCATG - 27240
 - E C F E F T V L E N N L L R G K Y C V M
 - S A S S S P F L R T T S S E V S T V S C
 - V L R V H R S * E Q P P Q R * V L C H V
 27241 - TGAATCACCTTCAAGAAAGGTTACTTCTTTTGGTGCCTTAAGAGGCATGAGTAGTTGCAG - 27300
 - * I T F K K G Y F F W C L K R H E * L Q
 - E S P S R K V T S F G A L R G M S S C S
 - N H L Q E R L L L V P * E A * V V A A
 27301 - CTGCTCCTTGCCACGTATACACTGACGGTAAAGTCCCTTGCTTTGAGCGATGAAGACTTC - 27360
 - L L L A T Y T L T V K S L A L S D E D F
 - C S L P R I H * R * S P L L * A M K T S
 - A P C H V Y T D G K V P C F E R * R L H
 27361 - ACCTAAGTTGAGTGATCGCAACTTTGCGCCAGCGATAGTGAAGTATGATCAATGCACATTC - 27420
 - T * V E * S Q L C A S D S D L I N A H F
 - P K L S D R N F A P A I V T * S M H I S
 - L S * V I A T L R Q R * * L D Q C T F R
 27421 - GAGTGCCTTGTTAACAACATCAATGAAGCATTTTACACAATCCTTGATGTTATCTGAAGC - 27480
 - E C L V N N I N E A F Y T I L D V I * S
 - S A L L T T S M K H F T Q S L M L S E A
 - V P C * Q H Q * S I L H N P * C Y L K Q
 27481 - AACCTGTATTTGACCCTTGACGATGTCAAAAACACCTGTAATGAGAAATTTGAGAATCTC - 27540
 - N L Y L T L D D V K N T C N E K F E N L
 - T C I * P L T M S K T P V M R N L R I S
 - P V F D P * R C Q K H L * * E I * E S P
 27541 - CCAAGCATCCTTGAGAAATTCAACTCCTGCACTAAGTTTCGCCTCAATCCATTCAAAGAT - 27600
 - P S I L E K F N S C T K F R L N P F K D
 - Q A S L R N S T P A L S F A S I H S K I
 - K H P * E I Q L L H * V S P Q S I Q R *
 27601 - AGGCCTGAGTTTTTCAACAGTAGTGCCCAAAAGATTAGACAACCACTGAGAAGTCTGTTG - 27660
 - R P E F F N S S A Q K I R Q P L R S L L
 - G L S F S T V V P K R L D N H * E V C C
 - A * V F Q Q * C P K D * T T T E K S V V
 27661 - TACAAGACCACAGTTACATATGCCATAATAATGACACTGTTGGTGAGCAGGTCTGAAGT - 27720
 - Y K T T S Y I C H N N D T V G E Q V * S
 - T R P P V T Y A I I M T L L V S R S E V
 - Q D H Q L H M P * * * H C W * A G L K Y

FIG. 12 Con't

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27721 - ATAAACCATGGCGTCGACAAGACGTAATGACTGTTTCAGAAATACCATCAAGTATGGTGAC - 27780
- I N H G V D K T * * L F R N T I K Y G D
- * T M A S T R R N D C S E I P S S M V T
- K P W R R Q D V M T V Q K Y H Q V W * Q
27781 - AGCTGCTCTTTGCAAATCAGGAATTGAGTGGTTTGCTGCATCAAGTGTGCGCGCAAAAAT - 27840
- S C S L Q I R N * V V C C I K C A R K N
- A A L C K S G I E W F A A S S V R A K I
- L L F A N Q E L S G L L H Q V C A Q K L
27841 - TGATCTGATAACACCAGCAGCCTGTGAGGGAAAACACACAGTGGTGTAAACTGATCT - 27900
- * S D N T S S L * G K T T Q W C * N * S
- D L I T P A A C E G K P H S G V K T D L
- I * * H Q Q P V R E N H T V V L K L I S
27901 - CTGTTGTCCAATGTTCCAAGCACCTTTTACGGGCTTTCCCTTGGTAACTTTATAGTTACC - 27960
- L L S N V P S T F Y G L S L G N F I V T
- C C P M F Q A P F T G F P L V T L * L P
- V V Q C S K H L L R A F P W * L Y S Y R
27961 - GCAGGACTCAACAATGGTTTTGAAAGACTTGTAATCAAGACTCTTTATAGTGTCAATAAA - 28020
- A G L N N G F E R L V I K T L Y S V N K
- Q D S T M V L K D L * S R L F I V S I K
- R T Q Q W F * K T C N Q D S L * C Q * R
28021 - GGCAC TTGTAGAAGCAGAGAAAGATGCCAAAATGATGGCAACCTCTTCATTCAAATGAAA - 28080
- G T C R S R E R C Q N D G N L F I Q M K
- A L V E A E K D A K M M A T S S F K * K
- H L * K Q R K M P K * W Q P L H S N E N
28081 - ATCGCCAACAATGTTAATGTTAACACGTTACGACTCAGTATCTCAAGGAGATCCTCATT - 28140
- I A N N V N V N T F T T Q Y L K E I L I
- S P T M L M L T R S R L S I S R R S S F
- R Q Q C * C * H V H D S V S Q G D P H S
28141 - CAAGGTCTCCACATTGTCCACAGTAATGCCAGTATGGCCTGAGCCAATATCAGCACTAGC - 28200
- Q G L H I V T S N A S M A * A N I S T S
- K V S T L S P V M P V W P E P I S A L A
- R S P H C H Q * C Q Y G L S Q Y Q H * H
28201 - ACGAGGAACCCAGTAGGCACGCTTATTATAGCAGCCAACATAGGCAAACACACAGCCTCC - 28260
- T R N P V G T L I I A A N I G K H T A S
- R G T Q * A R L L * Q P T * A N T Q P P
- E E P S R H A Y Y S S Q H R Q T H S L Q
28261 - AAAACATCTAGTCCTACCTCCCTTGCGGAGTCGAGTTTCAATGTTTGAGTGGTTGTGATA - 28320
- K T S S P T S L A E S S F N V * V V V I
- K H L V L P P L R S R V S M F E W L * *
- N I * S Y L P C G V E F Q C L S G C D N
28321 - ATCTGCAACACTATGCTCAGGTCCAATCTCTGGGTCTTGACAGGCAGGACATGGCATT - 28380
- I C N T M L R S N L W V L T G R T W H F
- S A T L C S G P I S G S * Q A G H G I F
- L Q H Y A Q V Q S L G L D R Q D M A F S
28381 - CACTACAGCATTAGTAGGTAGGTACCCACATGTAGTAGGTCCTTCAATAACTAAATTTTC - 28440
- H Y S I S R * V P T C S R S F N N * I F
- T T A L V G R Y P H V V G P S I T K F S
- L Q H * * V G T H M * * V L Q * L N F Q
28441 - AGTGCCACAATGTTTCAAGTGGCTTTTCAGAAAGTCGCACGTCTGCCATGAACTTCATC - 28500
- S A T M F T S G F Q K V A R L P * N F I
- V P Q C S Q V A F R K S H V C H E T S S
- C H N V H K W L S E S R T S A M K L H R
28501 - GCAATGATTACATTTTCATCAAGGTAGACAAGTGCATATTGTTACACTCCTGTGGAGATGC - 28560
- A M I T F H Q G R Q V H I V T L L W R C
- Q * L H F I K V D K C I L L H S C G D A
- N D Y I S S R * T S A Y C Y T P V E M Q

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FIG. 12 Con't

28561 - AACAGGGTACACAGAGCGTATACGCCCATGAAACCTCAGTCTTTTTCTTTTCAACACG - 28620
 - N R V H R A Y T P H E T L S L F L F N T
 - T G Y T E R I R P M K P S V F F F S T R
 - Q G T Q S V Y A P * N P Q S F S F Q H V
 28621 - TGGTTGAATGACTTTGACTTTTGGAGTTAAGAGGAAACACAACTTTGGGCATTCCCCTTT - 28680
 - W L N D F D F * V K R K H K L W A F P F
 - G * M T L T F E L R G N T N F G H S P L
 - V E * L * L L S * E E T Q T L G I P L *
 28681 - GAAAGTGTCAAATTTCTTGGCACTCTTAATTTTGAAGGGTGTCTGGTGCTCGTAGCTCTT - 28740
 - E S V K F L G T L L N F E G C L V L V A L
 - K V S N F L A L L I S K G V W C S * L L
 - K C Q I S W H S * F R R V S G A R S S Y
 28741 - ATCAGAGCGCTCAGTGAACCAGGCAATTTTCATGCTCATGGTCACGGCAGCAGTAGACACC - 28800
 - I R A L S E P G N F M L M V T A A V D T
 - S E R S V N Q A I S C S W S R Q Q * T P
 - Q S A Q * T R Q F H A H G H G S S R H L
 28801 - TCTCTTCGACTCGATGTAATCAAGTTGTTTCGAAAGAGTGCACATTGACTTGCCCGCGCG - 28860
 - S L R L D V I K L F G K S A H * L A R A
 - L F D S M * S S C S E R V H I D L P A R
 - S S T R C N Q V V R K E C T L T C P R V
 28861 - TGCGAGAAAATCTTTGATGCAATCAAGAGGGTACCCATCTGGGCCACAGAAATTGTTGTC - 28920
 - C E K I F D A I K R V P I W A T E I V V
 - A R K S L M Q S R G Y P S G P Q K L L S
 - R E N L * C N Q E G T H L G H R N C C R
 28921 - GACATAGCGAGTGACTGCACCTCCATTGAGCTCACGAGTGAGTTCACGGAGTGCACTACT - 28980
 - D I A S D C T S I E L T S E F T E C T T
 - T * R V T A P P L S S R V S S R S A P L
 - H S E * L H L H * A H E * V H G V H C
 28981 - GCCATGCTTAGTGTTCCAGTTTTGTTTCATAATCTTCAATGGGATCAGTGCCAAGCTCGTC - 29040
 - A M L S V P V L F I I F N G I S A K L V
 - P C L V F Q F C S * S S M G S V P S S S
 - H A * C S S F V H N L Q W D Q C Q A R H
 29041 - ACCTAAGTCATAAGACTTTAGATCGATGCCATAGCTATGACCACGGCTCCCTTATTACC - 29100
 - T * V I R L * I D A I A M T T G S L I T
 - P K S * D F R S M P * L * P P A P L L P
 - L S H K T L D R C H S Y D H R L P Y Y R
 29101 - GTTCTTACGAAGAAGAACATTGCGGTATGCAATTGGGGTTTCGCCACATGTGGCACGAG - 29160
 - V L T K K N I A V C N W G F A H M W H E
 - F L R R R T L R Y A I G V S P T C G T S
 - S Y E E E H C G M Q L G F R P H V A R V
 29161 - TACTCCCAGTGTTATACCGCTACGACCGTACTGAATGCCGTCCATTTCTGCAACCAGCTC - 29220
 - Y S Q C Y T A T T V L N A V H F C N Q L
 - T P S V I P L R P Y * M P S I S A T S S
 - L P V L Y R Y D R T E C R P F L Q P A Q
 29221 - AACGACCTTGTGGCCGTGATTGGTGCTTAAGGCATCAGAACGTTTAAATGAACACATAGGG - 29280
 - N D L V A V I G A * G I R T F N E H I G
 - T T L W P * L V L K A S E R L M N T * G
 - R P C G R D W C L R H Q N V * * T H R A
 29281 - CTGTTCAAGCTGGGGCAGTACGCCTTTTCCAGCTCTACTAGACCACAAGTGCCATTTTTT - 29340
 - L F K L G Q Y A F F Q L Y * T T S A I F
 - C S S W G S T P F S S S T R P Q V P F L
 - V Q A G A V R L F P A L L D H K C H F *
 29341 - GAGGTGTTACGTGCCTCCGATAGGGCCTCTTCCACAGAGTCCCCGAAGCCACGCACTAG - 29400
 - E V F T C L R * G L F H R V P E A T H *
 - R C S R A S D R A S S T E S P K P R T S
 - G V H V P P I G P L P Q S P R S H A L A

FIG. 12 Con't

90/90

29401 - CACGTCTCTAACCTGAAGGACAGGCAAACCTGAGTTGGACGTGTGTTTTCTCGTTGACACC - 29460
- H V S N L K D R Q T E L D V C F L V D T
- T S L T * R T G K L S W T C V F S L T P
- R L * P E G Q A N * V G R V F S R * H Q
29461 - AAGAACAAGGCTCTCCATCTTACCTTTTCGGTCACACCCGGACGAAACCTAGGTATGCTGA - 29520
- K N K A L H L T F R S H P D E T * V C *
- R T R L S I L P F G H T R T K P R Y A D
- E Q G S P S Y L S V T P G R N L G M L M
29521 - TGATCGACTGCAACACGGACGAAACCGTAAGCAGTCTGCAGAAGAGGGACGAGTTACTCG - 29580
- * S T A T R T K P * A V C R R G T S Y S
- D R L Q H G R N R K Q S A E E G R V T R
- I D C N T D E T V S S L Q K R D E L L V
29581 - TTTCTTGTC AACGACAGTAAAATTTATTATTGTTTATACTGCGTAGGTGCACTAGGCATG - 29640
- F L V N D S K I Y Y C L Y C V G A L G M
- F L S T T V K F I I V Y T A * V H * A C
- S C Q R Q * N L L L F I L R R C T R H A
29641 - CAGCCGAGCGACAGCTACACAGATTTTAAAGTTTCGTTTAGAGAACAGATCTACAAGAGAT - 29700
- Q P S D S Y T D F K V R L E N R S T R D
- S R A T A T Q I L K F V * R T D L Q E I
- A E R Q L H R F * S S F R E Q I Y K R S
29701 - CGAGGTTGGTTGGCTTTTCCTGGGTAGGTAAAAACCTAATAT - 29742
- R G W L A F P G * V K T * Y X
- E V G W L F L G R * K P N X
- R L V G F S W V G K N L I X

FIG. 12 Con't